

**To:** Mignone, Bryan[Bryan.Mignone@hq.doe.gov]; Marten, Alex[Marten.Alex@epa.gov]  
**From:** Newbold, Steve  
**Sent:** Sun 2/8/2015 4:47:39 PM  
**Subject:** Re: FUND derivative wrt emissions  
2011 10 25 dSCCdx.pdf

[about the premature send]

i've attached some old notes of mine from when

**Ex 5**

**Ex 5**

Ex 5

i haven't looked  
very closely at these notes in a while, so i'm not sure if they will hold up to closer  
inspection. anyway, i hope this helps...

cheers,

\*\*\*\*\*  
Steve Newbold  
U.S. EPA  
National Center for Environmental Economics (NCEE)  
EPA West, 4316T, MC 1809T  
1200 Pennsylvania Ave NW  
Washington, DC 20004  
(202) 566-2293  
\*\*\*\*\*

---

**From:** Newbold, Steve  
**Sent:** Sunday, February 08, 2015 11:38 AM  
**To:** Mignone, Bryan; Marten, Alex  
**Subject:** Re: FUND derivative wrt emissions

Hey Bryan,

In case

\*\*\*\*\*  
Steve Newbold  
U.S. EPA  
National Center for Environmental Economics (NCEE)  
EPA West, 4316T, MC 1809T  
1200 Pennsylvania Ave NW  
Washington, DC 20004  
(202) 566-2293  
\*\*\*\*\*

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**From:** Mignone, Bryan <Bryan.Mignone@hq.doe.gov>  
**Sent:** Friday, February 06, 2015 4:55 PM  
**To:** Marten, Alex  
**Cc:** Newbold, Steve  
**Subject:** RE: FUND derivative wrt emissions

Thanks – very interesting.

**Ex 5**

**Ex 5**

**Ex 5**

**From:** Marten, Alex [mailto:Marten.Alex@epa.gov]  
**Sent:** Friday, February 06, 2015 1:46 PM  
**To:** Mignone, Bryan  
**Cc:** Newbold, Steve  
**Subject:** FUND derivative wrt emissions

**Ex 5**

# Ex 5

--

Alex L. Marten  
phone: (202) 566-2301  
email: [marten.alex@epa.gov](mailto:marten.alex@epa.gov)

**To:** Mignone, Bryan[Bryan.Mignone@hq.doe.gov]; Marten, Alex[Marten.Alex@epa.gov]  
**From:** newbold.steve@gmail.com  
**Sent:** Sun 2/8/2015 4:52:44 PM  
**Subject:** Re: FUND derivative wrt emissions

sheesh, meant to say "sorry about the premature send" ( my bluetooth keyboard is acting up )

\*\*\*\*\*

Steve Newbold  
U.S. EPA  
National Center for Environmental Economics (NCEE)  
EPA West 4316T (MC1809T)  
1200 Pennsylvania Ave NW  
Washington, DC 20460  
(202)566-2293  
\*\*\*\*\*

On Sun, Feb 8, 2015 at 11:47 AM, Newbold, Steve <Newbold.Steve@epa.gov> wrote:

[about the premature send]

i've attached some old notes of mine from when

Ex 5

Ex 5

Ex 5

cheers,

\*\*\*\*\*

Steve Newbold  
U.S. EPA  
National Center for Environmental Economics (NCEE)  
EPA West, 4316T, MC 1809T  
1200 Pennsylvania Ave NW  
Washington, DC 20004  
(202) 566-2293  
\*\*\*\*\*

---

**From:** Newbold, Steve  
**Sent:** Sunday, February 08, 2015 11:38 AM  
**To:** Mignone, Bryan; Marten, Alex  
**Subject:** Re: FUND derivative wrt emissions

Hey Bryan,

In case

\*\*\*\*\*

Steve Newbold  
U.S. EPA  
National Center for Environmental Economics (NCEE)  
EPA West, 4316T, MC 1809T  
1200 Pennsylvania Ave NW  
Washington, DC 20004  
(202) 566-2293

\*\*\*\*\*

---

**From:** Mignone, Bryan <[Bryan.Mignone@hq.doe.gov](mailto:Bryan.Mignone@hq.doe.gov)>  
**Sent:** Friday, February 06, 2015 4:55 PM  
**To:** Marten, Alex  
**Cc:** Newbold, Steve  
**Subject:** RE: FUND derivative wrt emissions

Thanks – very interesting.

**Ex 5**

**Ex 5**

**Ex 5**

**From:** Marten, Alex [<mailto:Marten.Alex@epa.gov>]

**Sent:** Friday, February 06, 2015 1:46 PM  
**To:** Mignone, Bryan  
**Cc:** Newbold, Steve  
**Subject:** FUND derivative wrt emissions

**Ex 5**

**Ex 5**

--

Alex L. Marten

phone: (202) 566-2301  
email: marten.alex@epa.gov

**To:** Newbold, Steve[Newbold.Steve@epa.gov]  
**Cc:** Marten, Alex[Marten.Alex@epa.gov]  
**From:** McGartland, Al  
**Sent:** Sun 2/8/2015 5:15:36 PM  
**Subject:** Re: anyone want to speak on SCC April 23 in Minnesota?

I think so. The more I thought about it the more I moved to the approach were we just

**Ex 5**

Sent from my iPhone

On Feb 8, 2015, at 11:17 AM, Newbold, Steve <Newbold.Steve@epa.gov> wrote:

That sounds fine to me. Shall we touch base tomorrow morning before we decide on a final course of action?

\*\*\*\*\*  
Steve Newbold  
U.S. EPA  
National Center for Environmental Economics (NCEE)  
EPA West, 4316T, MC 1809T  
1200 Pennsylvania Ave NW  
Washington, DC 20004  
(202) 566-2293  
\*\*\*\*\*

---

**From:** McGartland, Al  
**Sent:** Sunday, February 08, 2015 9:11 AM  
**To:** Newbold, Steve  
**Cc:** Marten, Alex; Griffiths, Charles; Wolverton, Ann  
**Subject:** Re: anyone want to speak on SCC April 23 in Minnesota?

Great. I'm going to speak to the guy on Monday. I'm on the agenda at some other workshops and feeling a little overexposed.

Regarding your other email.

**Ex 5**

**Ex 5**

Sent from my iPhone



On Feb 8, 2015, at 7:27 AM, Newbold, Steve <[Newbold.Steve@epa.gov](mailto:Newbold.Steve@epa.gov)> wrote:

Barring any pre-existing family commitments I would be happy to do this if no one else is eager to go. I will be giving a presentation on the SCC in New Haven at the end of this month, so I will have already prepared remarks on this topic. But I'm also happy to hand off my slides if someone else would like a turn.

\*\*\*\*\*  
Steve Newbold  
U.S. EPA  
National Center for Environmental Economics (NCEE)  
EPA West, 4316T, MC 1809T  
1200 Pennsylvania Ave NW  
Washington, DC 20004  
(202) 566-2293  
\*\*\*\*\*

---

**From:** McGartland, Al  
**Sent:** Friday, February 06, 2015 5:11 PM  
**To:** Newbold, Steve; Marten, Alex; Griffiths, Charles; Wolverton, Ann  
**Subject:** anyone want to speak on SCC April 23 in Minnesota?

I think the talk is to at a law conference. I will know more early next week.

**To:** Marten, Alex[Marten.Alex@epa.gov]  
**Cc:** McGartland, Al[McGartland.Al@epa.gov]; Shouse, Kate[Shouse.Kate@epa.gov]; Fawcett, Allen[Fawcett.Allen@epa.gov]  
**From:** Barron, Alex  
**Sent:** Tue 2/3/2015 6:19:46 PM  
**Subject:** RE: 2015 02 02 SCC RTC intro draft.docx

**Ex 5**

Alex

**From:** Shouse, Kate  
**Sent:** Tuesday, February 03, 2015 1:11 PM  
**To:** Fawcett, Allen; Barron, Alex; Marten, Alex  
**Cc:** McGartland, Al  
**Subject:** RE: 2015 02 02 SCC RTC intro draft.docx

**Ex 5**

**Ex 5**

**Ex 5**

Thanks,  
Kate

**From:** Fawcett, Allen  
**Sent:** Tuesday, February 03, 2015 12:50 PM  
**To:** Barron, Alex; Marten, Alex; Shouse, Kate  
**Cc:** McGartland, Al  
**Subject:** RE: 2015 02 02 SCC RTC intro draft.docx

We're working on edits now, Kate will send shortly.

**From:** Barron, Alex  
**Sent:** Tuesday, February 03, 2015 12:47 PM  
**To:** Marten, Alex; Shouse, Kate  
**Cc:** McGartland, Al; Fawcett, Allen  
**Subject:** RE: 2015 02 02 SCC RTC intro draft.docx

Oar –

Do you have feedback?

**From:** Marten, Alex  
**Sent:** Tuesday, February 03, 2015 12:38 PM  
**To:** Barron, Alex; Shouse, Kate  
**Cc:** McGartland, Al; Fawcett, Allen  
**Subject:** RE: 2015 02 02 SCC RTC intro draft.docx

## Ex 5

The “supplementary information” section is the request for comment text verbatim, so I’m not sure we can retroactively edit that.

--

Alex L. Marten  
phone: (202) 566-2301  
email: [marten.alex@epa.gov](mailto:marten.alex@epa.gov)

**From:** Barron, Alex

**Sent:** Tuesday, February 03, 2015 12:18 PM  
**To:** Marten, Alex; Shouse, Kate  
**Cc:** McGartland, Al; Fawcett, Allen  
**Subject:** 2015 02 02 SCC RTC intro draft.docx

**Ex 5**

**Ex 5** Give me a call if you have questions.

**To:** Marten, Alex[Marten.Alex@epa.gov]  
**From:** Shouse, Kate  
**Sent:** Tue 2/3/2015 6:27:42 PM  
**Subject:** on a call - looking at interim, almost done (eom)

**From:** Marten, Alex  
**Sent:** Tuesday, February 03, 2015 1:20 PM  
**To:** Shouse, Kate; Fawcett, Allen; Barron, Alex  
**Cc:** McGartland, Al  
**Subject:** RE: 2015 02 02 SCC RTC intro draft.docx

**Ex 5**

**Ex 5**

--

Alex L. Marten  
phone: (202) 566-2301  
email: marten.alex@epa.gov

**From:** Shouse, Kate  
**Sent:** Tuesday, February 03, 2015 1:11 PM  
**To:** Fawcett, Allen; Barron, Alex; Marten, Alex  
**Cc:** McGartland, Al  
**Subject:** RE: 2015 02 02 SCC RTC intro draft.docx

**Ex 5**

# Ex 5

Thanks,  
Kate

**From:** Fawcett, Allen  
**Sent:** Tuesday, February 03, 2015 12:50 PM  
**To:** Barron, Alex; Marten, Alex; Shouse, Kate  
**Cc:** McGartland, Al  
**Subject:** RE: 2015 02 02 SCC RTC intro draft.docx

We're working on edits now, Kate will send shortly.

**From:** Barron, Alex  
**Sent:** Tuesday, February 03, 2015 12:47 PM  
**To:** Marten, Alex; Shouse, Kate  
**Cc:** McGartland, Al; Fawcett, Allen  
**Subject:** RE: 2015 02 02 SCC RTC intro draft.docx

Oar –

Do you have feedback?

**From:** Marten, Alex  
**Sent:** Tuesday, February 03, 2015 12:38 PM  
**To:** Barron, Alex; Shouse, Kate  
**Cc:** McGartland, Al; Fawcett, Allen  
**Subject:** RE: 2015 02 02 SCC RTC intro draft.docx

**Ex 5**

**Ex 5**

--

Alex L. Marten  
phone: (202) 566-2301  
email: marten.alex@epa.gov

**From:** Barron, Alex  
**Sent:** Tuesday, February 03, 2015 12:18 PM  
**To:** Marten, Alex; Shouse, Kate  
**Cc:** McGartland, Al; Fawcett, Allen  
**Subject:** 2015 02 02 SCC RTC intro draft.docx

**Ex 5**

**To:** Marten, Alex[Marten.Alex@epa.gov]  
**From:** Eric Hyman  
**Sent:** Fri 1/30/2015 3:17:31 PM  
**Subject:** Re: Social Cost of Carbon Methodology

Thank you.

On Fri, Jan 30, 2015 at 10:04 AM, Marten, Alex <Marten.Alex@epa.gov> wrote:

Hi Eric,

The methodology used to compute the SCC estimates is laid out in the 2010 TSD that accompanied the original set of estimates (link below). The 2013 update you reference was only a technical update in which the three integrated assessment models were updated to the newest versions being used in the peer reviewed literature. Since the methodology did not change, the 2013 TSD for the update referenced the original TSD for the readers interested in the methodology.

Specific details on the three integrated assessment models used in the estimation may be found in the references cited by the TSDs. These models have been documented in the scientific literature as they were developed over the last 20 years.

Replication instructions along with the USG input assumptions detailed in the 2010 TSD are also available upon request.

If you have a specific question I would be happy to try and help you out.

<http://www.whitehouse.gov/sites/default/files/omb/inforeg/for-agencies/Social-Cost-of-Carbon-for-RIA.pdf>

--

Alex L. Marten

Ex 6 - Alex Marten

email: [marten.alex@epa.gov](mailto:marten.alex@epa.gov)



**From:** Eric Hyman [mailto:[ehyman@usaid.gov](mailto:ehyman@usaid.gov)]  
**Sent:** Friday, January 30, 2015 9:46 AM  
**To:** Marten, Alex  
**Subject:** Social Cost of Carbon Methodology

Where can I find detailed information on the methodology used in the US social cost of carbon estimates? I have read the "Technical Support Document: Technical Update of the Social Cost of Carbon for Regulatory Impact Analysis Under Executive Order 12866" and it seems to be a black box on how the calculations were made.

--

Dr. Eric L. Hyman

Economist

Economic Policy/Economic Governance

Bureau for Economic Growth, Education and Environment

U.S. Agency for International Development

1400 Pennsylvania Avenue, NW, Room 2.11.101

Washington, DC 20523

Tel: [\(202\) 712-4898](tel:(202)712-4898)

--

Dr. Eric L. Hyman

Economist

Economic Policy/Economic Governance

Bureau for Economic Growth, Education and Environment

U.S. Agency for International Development

1400 Pennsylvania Avenue, NW, Room 2.11.101

Washington, DC 20523

Tel: (202) 712-4898

**To:** Marten, Alex[Marten.Alex@epa.gov]  
**From:** Bowen, Jennifer  
**Sent:** Tue 1/20/2015 7:33:28 PM  
**Subject:** RE: Quick review please!!!!

I already merged Elizabeth's, Ann's and Heather's comments. Can you send yours separately?  
Thanks and sorry for the hassle.

**From:** Marten, Alex  
**Sent:** Tuesday, January 20, 2015 2:31 PM  
**To:** Kopits, Elizabeth; Klemick, Heather; Griffiths, Charles; Shadbegian, Ron  
**Cc:** Wolverton, Ann; Evans, DavidA; Bowen, Jennifer; McGartland, Al  
**Subject:** RE: Quick review please!!!!

A few comments on top of Elizabeth's.

# Non-Responsive

--

Alex L. Marten  
phone: (202) 566-2301  
email: marten.alex@epa.gov

**From:** Kopits, Elizabeth  
**Sent:** Tuesday, January 20, 2015 10:52 AM  
**To:** Klemick, Heather; Griffiths, Charles; Shadbegian, Ron  
**Cc:** Wolverton, Ann; Evans, DavidA; Marten, Alex  
**Subject:** RE: Quick review please!!!!

Hi Heather,

I probably won't have time to read through this before 3pm, but I at least did a quick search on SCC and made a couple of relatively minor edits in footnote 10 on p. 39 – see attached. Feel free to fold these into your comments if you think it's worth it.

Thanks,

Elizabeth

**From:** Klemick, Heather  
**Sent:** Tuesday, January 20, 2015 10:40 AM  
**To:** Kopits, Elizabeth; Griffiths, Charles; Shadbegian, Ron  
**Cc:** Wolverton, Ann; Evans, DavidA; Marten, Alex  
**Subject:** FW: Quick review please!!!!

Forwarding this along in case folks have time and interest to comment today (before 3pm deadline).

**From:** Evans, DavidA  
**Sent:** Tuesday, January 20, 2015 10:23 AM  
**To:** Wolverton, Ann  
**Cc:** Marten, Alex; Klemick, Heather  
**Subject:** FW: Quick review please!!!!

Hi Ann,

Are you in today? (Do other's know if Ann is in?). I suspect you will circulate this to see who has time to comment? I'd like to, but am trying to catch up after being out.

Dave

**From:** McGartland, Al

**Sent:** Tuesday, January 20, 2015 10:16 AM

**To:** DeMocker, Jim; Gunning, Paul; Fawcett, Allen; Evans, DavidA; Marten, Alex; Klemick, Heather; Wolverton, Ann; Harvey, Reid; Helfand, Gloria; Simon, Karl; Goffman, Joseph

**Cc:** Beauvais, Joel; Barron, Alex; Bowen, Jennifer

**Subject:** Quick review please!!!!

Colleagues,

We just received (within the last 2 hours) a draft chapter to the Economic Report of the President (written by CEA). Unfortunately, the deadline for comments is Tuesday. Fortunately, I'm guessing we won't have many, if any major concerns with this draft.

Please send your comments to Jennifer Bowen and me. We will prepare a single set of EPA comments and work with OAR/Joel B. to figure out the best way to transmit them.

We are setting a firm deadline of Tuesday at 3:00 pm. CEA did send this earlier but as with other technical stuff, it didn't reach OAR or OP. CEA was kind enough to give us a new window of opportunity for review.

**To:** Marten, Alex[Marten.Alex@epa.gov]  
**From:** Ex 6 - Alex Marten  
**Sent:** Tue 6/2/2015 5:13:26 PM  
**Subject:** Fwd: Hope on adaptation: what is turning the page?

----- Forwarded message -----

**From:** Alex Marten <marten.alex@epa.gov>  
**Date:** Wed, Feb 20, 2013 at 6:18 PM  
**Subject:** Re: Hope on adaptation: what is turning the page?  
**To:** "Griffiths, Charles" <Griffiths.Charles@epa.gov>  
**Cc:** "Marten, Alex" <Marten.Alex@epa.gov>, "Kopits, Elizabeth" <Kopits.Elizabeth@epa.gov>, "Newbold, Steve" <Newbold.Steve@epa.gov>

That would be awesome if @Risk was already set up to do this easily. Please let me know if there is anything I can do to help.

On Wednesday, February 20, 2013, Griffiths, Charles wrote:

This is an excellent suggestion.

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Ex 5

**From:** Marten, Alex  
**Sent:** Wednesday, February 20, 2013 2:27 PM  
**To:** Kopits, Elizabeth; Griffiths, Charles  
**Cc:** Newbold, Steve  
**Subject:** RE: Hope on adaptation: what is turning the page?

**Ex 5**


--

Alex Marten


marten.alex@epa.gov

**From:** Kopits, Elizabeth  
**Sent:** Wednesday, February 20, 2013 1:48 PM  
**To:** Griffiths, Charles  
**Cc:** Newbold, Steve; Marten, Alex  
**Subject:** RE: Hope on adaptation: what is turning the page?

This is very helpful, Charles. Thanks! Here's what I'm planning on sending (with all papers attached). Any objections?



Ex 5



Ex 5

Hope this helps a little!

Regards,

Elizabeth

**From:** Griffiths, Charles  
**Sent:** Wednesday, February 20, 2013 1:35 PM  
**To:** Kopits, Elizabeth  
**Cc:** Newbold, Steve; Marten, Alex  
**Subject:** RE: Hope on adaptation: what is turning the page?

**Ex 5**

**Ex 5**

Sadly, that is all I can find.

Charles



**From:** Kopits, Elizabeth  
**Sent:** Wednesday, February 20, 2013 7:06 AM  
**To:** Griffiths, Charles  
**Cc:** Newbold, Steve; Marten, Alex  
**Subject:** FW: Hope on adaptation: what is turning the page?

Charles,

Do you have time to chat this morning?

**Ex 5**

**Ex 5**

Elizabeth

**From:** Gruenspecht, Howard [mailto:Howard.Gruenspecht@eia.gov]  
**Sent:** Tuesday, February 19, 2013 6:41 PM  
**To:** Kopits, Elizabeth  
**Subject:** Hope on adaptation: what is turning the page?

Elizabeth:

The document circulated by OMB on SCC looks like a first class job. Congratulations to you and your colleagues!

One thing I am trying to understand are:

**Ex 5**

**Ex 5**

If you can provide papers, or at least excerpts of papers that are key to this issue it would be great. Don't worry too much if you can't – I'm not going to have much time to look into this very deeply anyway!

Thanks. Howard

--

Alex L. Marten  
phone: (202) 566-2301  
email: [marten.alex@epa.gov](mailto:marten.alex@epa.gov)

--

Alex L. Marten  
phone: (202) 566-2301  
email: [marten.alex@epa.gov](mailto:marten.alex@epa.gov)

**To:** McGartland, Al[McGartland.Al@epa.gov]  
**Cc:** Evans, DavidA[evans.davida@epa.gov]  
**From:** Marten, Alex  
**Sent:** Thur 6/25/2015 1:54:38 PM  
**Subject:** FW: 111(d) RIA - as of 2:45 06/24  
[ch\\_3\\_cost\\_emissions - current.docx](#)  
[ch0\\_exec\\_summ.docx](#)  
[ch1\\_intro.docx](#)  
[ch2\\_profile.docx](#)  
[ch3a\\_upstream\\_methane.docx](#)  
[ch4\\_benefits.docx](#)  
[ch4a\\_benefits\\_appendix.docx](#)  
[ch5\\_secondary\\_econ\\_impacts.docx](#)  
[ch6\\_employment.docx](#)  
[ch6a\\_employment\\_appendix.docx](#)  
[ch7\\_exec\\_orders.docx](#)  
[ch8\\_net\\_benefits.docx](#)  
[ch9\\_federal\\_plan.docx](#)

Chapter 3 is the primary concern right now in terms of getting it ready for upload. They have addresses sed and removed some of our comments/questions/requests, but you will see a large number remain.

We think that there is still a bit of work to do in 5 but Dave (if he gets his computer) and I will knock that out today.

--

Alex L. Marten  
phone: (202) 566-2301  
email: [marten.alex@epa.gov](mailto:marten.alex@epa.gov)

**From:** Marten, Alex  
**Sent:** Wednesday, June 24, 2015 2:49 PM  
**To:** McGartland, Al  
**Cc:** Evans, DavidA  
**Subject:** 111(d) RIA - as of 2:45 06/24

Dave did remind me that when she gets back it would be a really good idea for Nathalie to look at the

**Non-Responsive**

--

Alex L. Marten

phone: (202) 566-2301

email: marten.alex@epa.gov

**To:** Ferris, Ann[Ferris.Ann@epa.gov]  
**From:** Marten, Alex  
**Sent:** Thur 6/11/2015 7:26:54 PM  
**Subject:** RE: Oil and Gas RIA update  
oil\_natural\_gas\_proposal\_nsps\_2\_draft\_ria\_OAR\_package.docx

--

Alex L. Marten  
phone: (202) 566-2301  
email: marten.alex@epa.gov

**From:** Ferris, Ann  
**Sent:** Thursday, June 11, 2015 2:45 PM  
**To:** Marten, Alex  
**Subject:** FW: Oil and Gas RIA update

Hi Alex,

I don't think I have a copy of the employment chapter of the RIA – I'm sorry to bother you, but would you mind sending it along? I can look at it.

Or should I ask Alex Macpherson?

Thanks,

Ann

564-3207

**From:** Macpherson, Alex  
**Sent:** Monday, June 08, 2015 10:29 AM  
**To:** Alsalam, Jameel; Shouse, Kate; Sarofim, Marcus; Kopits, Elizabeth; Ferris, Ann; Marten, Alex  
**Cc:** Weatherhead, Darryl  
**Subject:** Oil and Gas RIA update

Team

**Non-Responsive** to have a complete oil and gas package, so here's where we're at.

We need a complete draft of RIA by **Non-Responsive** to be ready to go to OMB probably sometime the following week.

This is really important for deadline reasons as well as the fact I will be on Annual Leave from 6/15 to 6/25. Jameel will covering for me while I am out, but my hope is that we have the draft done Friday then not much happens RIA-wise while I am away (knocking on wood). But of course Jameel knows this thing inside and out and can deal with things that come up. I will be semi-reachable but with a big time difference (6 hours behind).

Outstanding items:

**Non-Responsive**

## **Non-Responsive**

- OP review. I know we addressed a lot of OP comments already so I'm not sure how we want to proceed here. Let you three (Elizabeth, Alex, Ann) do one big sweep through this week (preferable by Weds, so I have chance to response)? Please advise.

Let me know if you have any questions or if I'm missing anything here. OP: I really need your input on what kind of review you want to do.

Thanks  
Alex

**To:** Shouse, Kate[Shouse.Kate@epa.gov]; Kopits, Elizabeth[Kopits.Elizabeth@epa.gov]  
**From:** Marten, Alex  
**Sent:** Thur 6/4/2015 10:28:35 PM  
**Subject:** RE: 95th %tile text

Kate, did you and Elizabeth ever talk about this? I was out sick yesterday and in meetings pretty much all of today so I am a little behind on things.

I am around tomorrow if you want to talk about.

--

Alex L. Marten  
phone: (202) 566-2301  
email: marten.alex@epa.gov

**From:** Shouse, Kate  
**Sent:** Tuesday, June 02, 2015 11:58 AM  
**To:** Kopits, Elizabeth  
**Cc:** Marten, Alex  
**Subject:** 95th %tile text

Hi – Just wanted to clarify the

Ex 5

Ex 5

Ex 5

Looks like this may have been one of Alex's suggested edits. Thanks.

**Ex 5**

**From:** Kopits, Elizabeth  
**Sent:** Tuesday, June 02, 2015 11:32 AM



**To:** Marsh, Karen; Vetter, Rick; Thundiyil, Karen  
**Cc:** Ward, Hillary; Cozzie, David; Fulcher, Charles; Shouse, Kate; Moore, Chris; Marten, Alex  
**Subject:** RE: Landfills supplemental NSPS - SC-CH4 insert

Hi Karen et al.

My apologies yet again, but as I am reviewing the RIA (still the advance copy I believe), I noticed a few things that would be good to update in the NSPS FRN to improve consistency across documents. Attached is the supplemental FRN plus the benefits insert from yesterday with a few more edits on each.

I hope this helps. Please let me know if you would like to discuss.

Thanks!

Elizabeth

**From:** Marsh, Karen  
**Sent:** Monday, June 01, 2015 4:25 PM  
**To:** Kopits, Elizabeth; Vetter, Rick; Thundiyil, Karen  
**Cc:** Ward, Hillary; Cozzie, David; Fulcher, Charles; Shouse, Kate; Moore, Chris; Marten, Alex  
**Subject:** RE: Landfills supplemental NSPS - SC-CH4 insert

Thanks Elizabeth. I'll get these changes incorporated.

\*\*\*\*\*

Karen R. Marsh, PE

US EPA, OAQPS, Sectors Policies and Programs Division

Fuels and Incineration Group

109 TW Alexander Drive, Mail Code E143-05

Research Triangle Park, NC 27711

Direct: (919) 541-1065; email: [marsh.karen@epa.gov](mailto:marsh.karen@epa.gov)

**From:** Kopits, Elizabeth

**Sent:** Monday, June 01, 2015 3:36 PM

**To:** Marsh, Karen; Vetter, Rick; Thundiyil, Karen

**Cc:** Ward, Hillary; Cozzie, David; Fulcher, Charles; Shouse, Kate; Moore, Chris; Marten, Alex

**Subject:** RE: Landfills supplemental NSPS - SC-CH4 insert

Hi Karen et al.,

Sorry for the multiple emails, but here is an update to the file I just sent you. It includes two more minor edits from Alex M.

Thanks!

Elizabeth

**From:** Kopits, Elizabeth

**Sent:** Monday, June 01, 2015 3:06 PM

**To:** Marsh, Karen; Vetter, Rick; Thundiyil, Karen

**Cc:** Ward, Hillary; Cozzie, David; Fulcher, Charles; Shouse, Kate; Moore, Chris; Marten, Alex

**Subject:** RE: Landfills supplemental NSPS - SC-CH4 insert

Hi Karen et al.,

**Ex 5** Attached are some suggested edits that hopefully do not make it too much longer!

Please feel free to call me to discuss, or Kate and I can just iterate directly if that is easier (we are working together on the SCC/SCM section for a number of other rules anyway).

Thanks,

Elizabeth

Elizabeth Kopits, Ph.D.

National Center for Environmental Economics

Office of Policy, US EPA

1200 Pennsylvania Ave, NW, MC 1809T

Washington, DC 20460

(202) 566-2299

**From:** Marsh, Karen

**Sent:** Monday, June 01, 2015 1:31 PM

**To:** Vetter, Rick; Thundiyil, Karen; Kopits, Elizabeth

**Cc:** Ward, Hillary; Cozzie, David; Fulcher, Charles; Shouse, Kate

**Subject:** Landfills supplemental NSPS - SC-CH4 insert

Rick, Karen, and Elizabeth,

Attached for your review is language we intend to insert in the MSW Landfills NSPS Supplemental proposal related to the social-cost of methane. This text will go immediately following Table 1. Kate Shouse prepared the text and Charlie and I worked together to make a few minor edits, including only presenting the proposed option in Table 2 for consistency with what we have in the current version of the Emission Guidelines proposal.

Please review this text and let me know if you have any additional changes or edits and if this will suffice for discussion in the NSPS supplemental with further discussion available in the RIA.

Thanks,

Karen

\*\*\*\*\*

Karen R. Marsh, PE

US EPA, OAQPS, Sectors Policies and Programs Division

Fuels and Incineration Group

109 TW Alexander Drive, Mail Code E143-05

Research Triangle Park, NC 27711

Direct: (919) 541-1065; email: [marsh.karen@epa.gov](mailto:marsh.karen@epa.gov)

**To:** Shouse, Kate[Shouse.Kate@epa.gov]; Evans, DavidA[Evans.DavidA@epa.gov]; Weatherhead, Darryl[Weatherhead.Darryl@epa.gov]; Fellner, Christian[Fellner.Christian@epa.gov]; Risley, David[Risley.David@epa.gov]; CurryBrown, Amanda[CurryBrown.amanda@epa.gov]; Silverman, Steven[silverman.steven@epa.gov]; Roberts, Martha[Roberts.Martha@epa.gov]  
**Cc:** Hoffman, Howard[hoffman.howard@epa.gov]; Hutson, Nick[Hutson.Nick@epa.gov]; Elman, Barry[Elman.Barry@epa.gov]; Zenick, Elliott[Zenick.Elliott@epa.gov]  
**From:** Marten, Alex  
**Sent:** Thur 6/4/2015 6:39:16 PM  
**Subject:** RE: draft narrative on 111(b) costs and benefits/RIA

I could do that but would have to leave at 3:00, though I think Dave would be able to stick around.

--

Alex L. Marten  
phone: (202) 566-2301  
email: [marten.alex@epa.gov](mailto:marten.alex@epa.gov)

**From:** Shouse, Kate  
**Sent:** Thursday, June 04, 2015 2:38 PM  
**To:** Evans, DavidA; Marten, Alex; Weatherhead, Darryl; Fellner, Christian; Risley, David; CurryBrown, Amanda; Silverman, Steven; Roberts, Martha  
**Cc:** Hoffman, Howard; Hutson, Nick; Elman, Barry; Zenick, Elliott  
**Subject:** RE: draft narrative on 111(b) costs and benefits/RIA

Is 2:30-3:30 tomorrow an option for everyone? I know that goes partially beyond the range given below but I'm not seeing a 1-hour block of time free for everyone.

**From:** Evans, DavidA  
**Sent:** Thursday, June 04, 2015 2:08 PM  
**To:** Shouse, Kate; Silverman, Steven; CurryBrown, Amanda; Roberts, Martha; Hoffman, Howard; Hutson, Nick; Fellner, Christian; Weatherhead, Darryl; Risley, David  
**Cc:** Elman, Barry; Marten, Alex; Zenick, Elliott  
**Subject:** RE: draft narrative on 111(b) costs and benefits/RIA

We in OP have some constraints b/w 11 and 3 tomorrow. At the least, we aren't available from

11 to 12, and from 1:30 to 2:30.

Definitely would like to discuss.

D

**From:** Shouse, Kate  
**Sent:** Thursday, June 04, 2015 12:18 PM  
**To:** Silverman, Steven; CurryBrown, Amanda; Evans, DavidA; Roberts, Martha; Hoffman, Howard; Hutson, Nick; Fellner, Christian; Weatherhead, Darryl; Risley, David  
**Cc:** Elman, Barry; Marten, Alex; Zenick, Elliott  
**Subject:** RE: draft narrative on 111(b) costs and benefits/RIA

This afternoon doesn't look good on Outlook calendars; I think 1:30 to 2 pm is only timeslot. Darryl and Christian, do you have any time tomorrow between 11 and 3? I can send out a meeting invitation once we have a critical mass; I have a call in that we can use. Tomorrow btwn 11 and 3 is also fine for me.

Hope you feel better today, Amanda.

**From:** Silverman, Steven  
**Sent:** Thursday, June 04, 2015 12:07 PM  
**To:** CurryBrown, Amanda; Evans, DavidA; Roberts, Martha; Hoffman, Howard; Hutson, Nick; Fellner, Christian; Weatherhead, Darryl; Risley, David; Shouse, Kate  
**Cc:** Elman, Barry; Marten, Alex; Zenick, Elliott  
**Subject:** RE: draft narrative on 111(b) costs and benefits/RIA

Tomorrow betw 11 and 3 is good for me

**From:** CurryBrown, Amanda  
**Sent:** Thursday, June 04, 2015 11:24 AM

**To:** Silverman, Steven; Evans, DavidA; Roberts, Martha; Hoffman, Howard; Hutson, Nick; Fellner, Christian; Weatherhead, Darryl; Risley, David; Shouse, Kate  
**Cc:** Elman, Barry; Marten, Alex; Zenick, Elliott  
**Subject:** Re: draft narrative on 111(b) costs and benefits/RIA

I think this is a good idea. If possible, should include all above, including Christian (who can speak to the emission numbers), David & Kate (who did the benefits analysis), and Darryl (who will cover the RIA while I am out of the office tomorrow and part of next week).

I went home sick this morning and am not having much success using my calendar from webmail. Could someone schedule? I can call in anytime this afternoon or tomorrow between 11-3.

---

**From:** Silverman, Steven  
**Sent:** Thursday, June 4, 2015 11:16 AM  
**To:** Evans, DavidA; Roberts, Martha; Hoffman, Howard; Hutson, Nick  
**Cc:** Elman, Barry; Marten, Alex; CurryBrown, Amanda; Zenick, Elliott  
**Subject:** RE: draft narrative on 111(b) costs and benefits/RIA

Can we schedule a meeting to talk some of this through? I'm not sure who the appropriate people are, but Martha should be one of them.

**Non-Responsive**

**Non-Responsive**

**From:** Evans, DavidA  
**Sent:** Wednesday, June 03, 2015 7:56 PM  
**To:** Silverman, Steven; Roberts, Martha; Hoffman, Howard; Hutson, Nick  
**Cc:** Elman, Barry; Marten, Alex; CurryBrown, Amanda; Zenick, Elliott  
**Subject:** RE: draft narrative on 111(b) costs and benefits/RIA

Hi Steve,

So, my two cents on this given that things are moving quickly:

**Non-Responsive**

**Non-Responsive**

We will of course take a look at the comments you provide in the third bullet.

**Non-Responsive**



**Non-Responsive**

**Ex 5**

Thanks for flagging the last bullet. We'll look.

**Non-Responsive**

Hope this helps,

d

**From:** Silverman, Steven

**Sent:** Wednesday, June 03, 2015 7:02 PM  
**To:** Evans, DavidA; Roberts, Martha; Hoffman, Howard; Hutson, Nick  
**Cc:** Elman, Barry; Marten, Alex; CurryBrown, Amanda; Zenick, Elliott  
**Subject:** RE: draft narrative on 111(b) costs and benefits/RIA

Thanks David. I have gone thru RIA, still pretty quickly, and put edits and cmmts into the Sharepoint version.

**Non-Responsive**

**Ex 5**

**Non-Responsive**

**Ex 5**

**Non-Responsive**

**Non-Responsive**

**Non-Responsive**

**From:** Evans, DavidA  
**Sent:** Wednesday, June 03, 2015 5:45 PM  
**To:** Silverman, Steven; Roberts, Martha; Hoffman, Howard; Hutson, Nick  
**Cc:** Elman, Barry; Marten, Alex  
**Subject:** RE: draft narrative on 111(b) costs and benefits

Thanks. When/if we talk we should loop in the RIA OAR lead, Amanda Curry-Brown.

d

**From:** Silverman, Steven  
**Sent:** Wednesday, June 03, 2015 5:20 PM  
**To:** Evans, DavidA; Roberts, Martha; Hoffman, Howard; Hutson, Nick  
**Cc:** Elman, Barry; Marten, Alex  
**Subject:** RE: draft narrative on 111(b) costs and benefits

Thanks. I'm going thru RIA and will have comments and questions noted there. Hope to finish at least some of that today

**From:** Evans, DavidA  
**Sent:** Wednesday, June 03, 2015 4:30 PM  
**To:** Silverman, Steven; Roberts, Martha; Hoffman, Howard; Hutson, Nick  
**Cc:** Elman, Barry; Marten, Alex  
**Subject:** RE: draft narrative on 111(b) costs and benefits

Steve,

# Non-Responsive

## Ex 5

# Non-Responsive

Dave

**From:** Silverman, Steven  
**Sent:** Tuesday, June 02, 2015 7:19 PM  
**To:** Roberts, Martha; Hoffman, Howard; Hutson, Nick  
**Cc:** Elman, Barry; Evans, DavidA; Marten, Alex  
**Subject:** RE: draft narrative on 111(b) costs and benefits

# Ex 5

**From:** Roberts, Martha  
**Sent:** Tuesday, June 02, 2015 8:30 AM  
**To:** Silverman, Steven; Hoffman, Howard; Hutson, Nick  
**Cc:** Elman, Barry; Evans, DavidA; Marten, Alex  
**Subject:** draft narrative on 111(b) costs and benefits

Dear all,

**Non-Responsive**

**Non-Responsive**

Thanks,

Martha

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**Non-Responsive**

**Non-Responsive**

**Ex 5**

**Non-Responsive**

**Ex 5**

# Ex 5

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Martha Roberts

Counsel, Office of Policy

Environmental Protection Agency

Office: 202-564-2286

**Ex 6 - Other**

**To:** Roberts, Martha[Roberts.Martha@epa.gov]; Elman, Barry[Elman.Barry@epa.gov]; Evans, DavidA[Evans.DavidA@epa.gov]  
**Bcc:** alex.marten; **Ex 6 - Alex Marten**  
**From:** Marten, Alex  
**Sent:** Fri 5/29/2015 10:07:05 PM  
**Subject:** RE: (b) CBA recap

Not sure if any of my edits/additions are helpful, it is approaching 6pm on a Friday, so feel free to accept or discard as you see fit...

# Non-Responsive

o The SC-CO2 estimates do not assign value to all of the important physical, ecological, and economic impacts of climate change recognized in the climate change literature, such that the IPCC concluded that “it is very likely that [SC-CO2 estimates] underestimate the damage costs” (as discussed in full in the RIA).

# Non-Responsive



# Non-Responsive

--

Alex L. Marten  
phone: (202) 566-2301  
email: marten.alex@epa.gov

**From:** Roberts, Martha  
**Sent:** Friday, May 29, 2015 5:43 PM  
**To:** Elman, Barry; Marten, Alex; Evans, DavidA  
**Subject:** (b) CBA recap

Hey Dave and Alex – thanks for all the great thoughts. Let me know if this sounds like a reasonable summary:

# Non-Responsive

**Non-Responsive**

**Ex 5**

**Non-Responsive**

**Ex 5**

Martha Roberts

Counsel, Office of Policy

Environmental Protection Agency

Office: 202-564-2286

**Ex 6 - Other**

**To:** Evans, DavidA[Evans.DavidA@epa.gov]; Roberts, Martha[Roberts.Martha@epa.gov]  
**Cc:** Elman, Barry[Elman.Barry@epa.gov]  
**Bcc:** alex.marten; Ex 6 - Alex Marten  
**From:** Marten, Alex  
**Sent:** Fri 5/29/2015 8:11:05 PM  
**Subject:** RE: FYI on steam standard

i'm here

--

Alex L. Marten  
phone: (202) 566-2301  
email: [marten.alex@epa.gov](mailto:marten.alex@epa.gov)

**From:** Evans, DavidA  
**Sent:** Friday, May 29, 2015 4:11 PM  
**To:** Roberts, Martha; Marten, Alex  
**Cc:** Elman, Barry  
**Subject:** RE: FYI on steam standard

I'm here until 5. Not sure about Alex.

**From:** Roberts, Martha  
**Sent:** Friday, May 29, 2015 3:59 PM  
**To:** Marten, Alex; Evans, DavidA  
**Cc:** Elman, Barry  
**Subject:** RE: FYI on steam standard

If 4 still works, I will stroll over now – could use the change of scenery.

**From:** Marten, Alex  
**Sent:** Friday, May 29, 2015 2:51 PM  
**To:** Evans, DavidA; Roberts, Martha

**Cc:** Elman, Barry  
**Subject:** RE: FYI on steam standard

I could talk at 4:00

--

Alex L. Marten  
phone: (202) 566-2301  
email: marten.alex@epa.gov

**From:** Evans, DavidA  
**Sent:** Friday, May 29, 2015 12:33 PM  
**To:** Roberts, Martha  
**Cc:** Marten, Alex; Elman, Barry  
**Subject:** RE: FYI on steam standard

I do but need to leave by 5.

BTW, didn't intend to suggest that you shouldn't talk to OAR too about them, but honestly the most articulate folks about what all of the components show are Alex and me.

**From:** Roberts, Martha  
**Sent:** Friday, May 29, 2015 12:31 PM  
**To:** Evans, DavidA  
**Cc:** Marten, Alex; Elman, Barry  
**Subject:** Re: FYI on steam standard

Either of you have any time after 3 pm today? (No worries if next week is easier)

Sent from my iPhone

On May 29, 2015, at 12:28 PM, Evans, DavidA <[Evans.DavidA@epa.gov](mailto:Evans.DavidA@epa.gov)> wrote:

**Non-Responsive**

d

**From:** Marten, Alex  
**Sent:** Friday, May 29, 2015 12:24 PM  
**To:** Roberts, Martha; Evans, DavidA; Elman, Barry  
**Subject:** RE: FYI on steam standard

Current working draft of the RIA attached.

**Non-Responsive**

**Non-Responsive**

**Non-Responsive**

--

Alex L. Marten  
phone: (202) 566-2301  
email: [marten.alex@epa.gov](mailto:marten.alex@epa.gov)

**From:** Roberts, Martha  
**Sent:** Friday, May 29, 2015 12:20 PM  
**To:** Evans, DavidA; Elman, Barry  
**Cc:** Marten, Alex  
**Subject:** RE: FYI on steam standard

Dave, Alex,

Non-Responsive  
Non-Responsive

**Non-Responsive**

Thank you!

Martha

**From:** Evans, DavidA  
**Sent:** Friday, May 08, 2015 8:17 PM  
**To:** Elman, Barry; Roberts, Martha  
**Cc:** Marten, Alex  
**Subject:** FYI on steam standard

FYI. Adapted table from RIA. Not sure this was flagged to Joel/Alex (

**Non-Responsive**

**Non-Responsive**

**Ex 5**





**To:** Evans, DavidA[Evans.DavidA@epa.gov]  
**Bcc:** alex.marten; **Ex 6 - Alex Marten**  
**From:** Marten, Alex  
**Sent:** Thur 5/28/2015 10:05:56 PM  
**Subject:** RE: Temporal shifts in CO2

sorry, just noticing i missed this. we should remember this and fill in on the next draft

--

Alex L. Marten  
phone: (202) 566-2301  
email: marten.alex@epa.gov

**From:** Evans, DavidA  
**Sent:** Thursday, May 28, 2015 10:08 AM  
**To:** Marten, Alex  
**Subject:** RE: Temporal shifts in CO2

**Ex 5**

**Ex 5**

**From:** Marten, Alex  
**Sent:** Thursday, May 28, 2015 10:04 AM  
**To:** Evans, DavidA  
**Subject:** RE: Temporal shifts in CO2

Maybe:

**Non-Responsive**

# Non-Responsive

With the comment:

Ex 5

# Ex 5

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Alex L. Marten  
phone: (202) 566-2301  
email: [marten.alex@epa.gov](mailto:marten.alex@epa.gov)

**From:** Evans, DavidA  
**Sent:** Thursday, May 28, 2015 9:55 AM  
**To:** Marten, Alex  
**Subject:** RE: Temporal shifts in CO2

Yep. More importantly, do you have any easy fix for this?

**From:** Marten, Alex  
**Sent:** Thursday, May 28, 2015 9:54 AM  
**To:** Evans, DavidA  
**Subject:** RE: Temporal shifts in CO2

Correct, my 1<sup>st</sup> and 2<sup>nd</sup> should have been 2<sup>nd</sup> and 3<sup>rd</sup>.

--

Alex L. Marten  
phone: (202) 566-2301  
email: marten.alex@epa.gov

**From:** Evans, DavidA  
**Sent:** Thursday, May 28, 2015 9:52 AM  
**To:** Marten, Alex  
**Subject:** RE: Temporal shifts in CO2

**Non-Responsive**

d

**From:** Marten, Alex  
**Sent:** Thursday, May 28, 2015 9:51 AM  
**To:** Evans, DavidA  
**Subject:** RE: Temporal shifts in CO2

**Non-Responsive**

Non-Responsive

--

Alex L. Marten  
phone: (202) 566-2301  
email: marten.alex@epa.gov

**From:** Evans, DavidA  
**Sent:** Thursday, May 28, 2015 9:18 AM  
**To:** Marten, Alex  
**Subject:** Temporal shifts in CO2

Given that the SCC changes over time, and differs from the private discount rate, we should make sure we given a little more context to this text in the future:

# Ex 5

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# Ex 5

**To:** Deck, Leland[Deck.Leland@epa.gov]; Shouse, Kate[Shouse.Kate@epa.gov]; Evans, DavidA[Evans.DavidA@epa.gov]; Risley, David[Risley.David@epa.gov]  
**Cc:** Chappell, Linda[Chappell.Linda@epa.gov]; Keaveny, Brian[Keaveny.Brian@epa.gov]  
**Bcc:** alex.marten; **Ex 6 - Alex Marten**  
**From:** Marten, Alex  
**Sent:** Mon 5/11/2015 9:25:04 PM  
**Subject:** RE: 111(b) RIA WHERE I AM APPLYING CUA

**Ex 5**

Thanks for writing this out, Leland.

--

Alex L. Marten  
phone: (202) 566-2301  
email: [marten.alex@epa.gov](mailto:marten.alex@epa.gov)

**From:** Deck, Leland  
**Sent:** Monday, May 11, 2015 4:50 PM  
**To:** Shouse, Kate; Evans, DavidA; Marten, Alex; Risley, David  
**Cc:** Chappell, Linda; Keaveny, Brian  
**Subject:** RE: 111(b) RIA WHERE I AM APPLYING CUA

# Non-Responsive

# Non-Responsive

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Leland Deck, Clean Air Markets Division

Voice: (202)343-9136 Email: [Deck.Leland@EPA.gov](mailto:Deck.Leland@EPA.gov)

Office Location: Room 7231G, East-West Connector

Clinton Building East, Washington, DC

**From:** Shouse, Kate

**Sent:** Monday, May 11, 2015 4:36 PM

**To:** Evans, DavidA; Marten, Alex; Deck, Leland; Risley, David

**Cc:** Chappell, Linda; Keaveny, Brian

**Subject:** 111(b) RIA

Apologies for the barrage of emails, I need to run out the door and wanted to check in on a few details. I just finished updating the numbers in Ch 5 and David Risley is reviewing to make sure it's correct. We need input from **OP, Leland, and possibly Nick** on the following items before wrapping up – please see below.

Also, the page numbering in ch 5 is quirky. It restarts somewhere around 5-3 or 5-5, so there are two pg 5-1 and so on. Perhaps better to resolve once major editing completed?

Remaining questions:

# Non-Responsive

## Non-Responsive

**RIA structure:** My understanding for RIA structure was that we would present SCC and health values in Ch 3, cost/LCOEs in Ch 4, and the comparison in illustrative scenarios in Ch 5. Dave Evans, is your comment on pg 5-8 asking us to present the Section 4.5.3 tables and charts in both 4.5.3 and 5.5? Or do you want us to cut 4.5.3 and paste it in ch 5? Seems preferable to present once and then use cross-references.

# Non-Responsive



**To:** Shouse, Kate [Shouse.Kate@epa.gov]; CurryBrown, Amanda [CurryBrown.amanda@epa.gov]  
**Bcc:** alex.marten; **Ex 6 - Alex Marten**  
**From:** Marten, Alex  
**Sent:** Wed 5/6/2015 8:39:02 PM  
**Subject:** RE: Ch. 5 - outstanding questions

Thanks Kate

--

Alex L. Marten  
phone: (202) 566-2301  
email: [marten.alex@epa.gov](mailto:marten.alex@epa.gov)

**From:** Shouse, Kate  
**Sent:** Wednesday, May 06, 2015 4:24 PM  
**To:** CurryBrown, Amanda  
**Cc:** Marten, Alex  
**Subject:** Re: Ch. 5 - outstanding questions

:). I'll confirm with Bryan too, we have a d call tomorrow morning.

Sent from my iPhone

On May 6, 2015, at 4:17 PM, CurryBrown, Amanda <[CurryBrown.amanda@epa.gov](mailto:CurryBrown.amanda@epa.gov)> wrote:

Excellent – that seems conclusive enough for me ☺

**From:** Shouse, Kate  
**Sent:** Wednesday, May 06, 2015 3:53 PM  
**To:** CurryBrown, Amanda; Marten, Alex; Risley, David; Evans, DavidA  
**Subject:** RE: Ch. 5 - outstanding questions

Re: **Ex 5**

**Ex 5**

**Ex 5**

The redline has since been accepted but the comment bubble remains.

## Ex 5

**From:** CurryBrown, Amanda  
**Sent:** Wednesday, May 06, 2015 3:26 PM  
**To:** Marten, Alex; Shouse, Kate; Risley, David; Evans, DavidA  
**Subject:** RE: Ch. 5 - outstanding questions

Thanks, Kate & Alex.

**From:** Marten, Alex  
**Sent:** Wednesday, May 06, 2015 3:21 PM  
**To:** Shouse, Kate; CurryBrown, Amanda; Risley, David; Evans, DavidA  
**Subject:** RE: Ch. 5 - outstanding questions

My responses in green.

--

Alex L. Marten  
phone: (202) 566-2301  
email: marten.alex@epa.gov

**From:** Shouse, Kate  
**Sent:** Wednesday, May 06, 2015 3:02 PM  
**To:** CurryBrown, Amanda; Risley, David; Marten, Alex; Evans, DavidA  
**Subject:** RE: Ch. 5 - outstanding questions

Thanks, Amanda. Please see below for my responses. Alex Marten, quick question for you and Amanda on your Table 5-4 comment. David, can you check Tables 5-4 and 5-5 to make sure I'm not missing anything? I think we can remove the highlighting on those tables but wanted to confirm with you first. Thanks!

**Non-Responsive**

**Ex 5**

**Non-Responsive**

**From:** CurryBrown, Amanda

**Sent:** Wednesday, May 06, 2015 12:29 PM

**To:** Shouse, Kate; Risley, David; Marten, Alex; Evans, DavidA

**Subject:** Ch. 5 - outstanding questions

I just went through Ch. 5 and Ex 5 Here are the items that are either still outstanding or are things that I wasn't sure were finished (seems to be mostly the latter):

# Non-Responsive

**Amanda Curry Brown**

Health and Environmental Impacts Division

U.S. EPA Office of Air Quality Planning and Standards

919.541.3808

[CurryBrown.Amanda@epa.gov](mailto:CurryBrown.Amanda@epa.gov)

**To:** Evans, DavidA[Evans.DavidA@epa.gov]; CurryBrown, Amanda[CurryBrown.amanda@epa.gov]  
**Bcc:** alex.marten; Ex 6 - Alex Marten  
**From:** Marten, Alex  
**Sent:** Wed 4/29/2015 7:38:25 PM  
**Subject:** RE: chapter 5 comments

Amanda & Dave,

# Non-Responsive

--

Alex L. Marten  
phone: (202) 566-2301  
email: marten.alex@epa.gov

**From:** Evans, DavidA  
**Sent:** Wednesday, April 29, 2015 3:29 PM  
**To:** CurryBrown, Amanda  
**Cc:** Marten, Alex  
**Subject:** RE: chapter 5 comments

Thanks.

**From:** CurryBrown, Amanda  
**Sent:** Wednesday, April 29, 2015 3:22 PM

**To:** Evans, DavidA  
**Cc:** Marten, Alex  
**Subject:** RE: chapter 5 comments

I will ask her to – they are supposed to talk tomorrow sometime, but may try to get her to check in earlier.

**From:** Evans, DavidA  
**Sent:** Wednesday, April 29, 2015 2:54 PM  
**To:** CurryBrown, Amanda  
**Cc:** Marten, Alex  
**Subject:** RE: chapter 5 comments

Okay. Is Darryl following up with Jeb? We could have Al prod Jeb, but maybe better to start w/ Darryl as you are lead?

Barron will call immediately if we make him aware of this delay, and he is going to ask soon.

Dave

**From:** CurryBrown, Amanda  
**Sent:** Wednesday, April 29, 2015 1:48 PM  
**To:** Evans, DavidA  
**Cc:** Marten, Alex  
**Subject:** RE: chapter 5 comments

Assuming you don't mean the previous ETD's that have come and gone already.

**From:** CurryBrown, Amanda  
**Sent:** Wednesday, April 29, 2015 1:48 PM  
**To:** Evans, DavidA  
**Cc:** Marten, Alex  
**Subject:** RE: chapter 5 comments

No. He told me he'd have to get back to me.

**From:** Evans, DavidA  
**Sent:** Wednesday, April 29, 2015 1:46 PM  
**To:** CurryBrown, Amanda  
**Cc:** Marten, Alex  
**Subject:** RE: chapter 5 comments

So, just to clarify, Leland gave you no estimated time of delivery?

(Multitasking)

d

**From:** Evans, DavidA  
**Sent:** Wednesday, April 29, 2015 12:50 PM  
**To:** CurryBrown, Amanda  
**Cc:** Marten, Alex  
**Subject:** RE: chapter 5 comments

Non-Responsive



I have a 1pm, but will follow up after.

Dave

**From:** CurryBrown, Amanda  
**Sent:** Wednesday, April 29, 2015 12:43 PM  
**To:** Evans, DavidA  
**Subject:** RE: chapter 5 comments

I talked to Leland – he said he was

**Non-Responsive**

**Non-Responsive**

**From:** CurryBrown, Amanda  
**Sent:** Wednesday, April 29, 2015 12:05 PM  
**To:** Evans, DavidA  
**Subject:** RE: chapter 5 comments

Nothing yet from Jeb or Leland.

**From:** Evans, DavidA  
**Sent:** Wednesday, April 29, 2015 9:46 AM  
**To:** CurryBrown, Amanda  
**Subject:** RE: chapter 5 comments

Sounds good.

I'm trying to prevent 8 layers of management asking about where something is and trying to assure that folks are left alone to just write..

**From:** CurryBrown, Amanda  
**Sent:** Wednesday, April 29, 2015 9:43 AM  
**To:** Evans, DavidA  
**Subject:** RE: chapter 5 comments

Thanks. I also sent an email this morning trying to round up the remaining pieces we need for analysis **Non-Responsive**, so hopefully will get everything before too long.

It's been a while since I've looked at them but I remember the comments on the

**Ex 5**

**From:** Evans, DavidA  
**Sent:** Wednesday, April 29, 2015 9:32 AM  
**To:** CurryBrown, Amanda  
**Subject:** RE: chapter 5 comments

First news, and then a response. I exchanged vmails w/ Jeb. He is going to follow up with Leland and then you to convey status. He didn't sound panicked, but knew that we needed Chapter 4. Let me know if you don't hear from him this morning please let me know.

Also, I also meant to ask you about response to comments, and specifically if there were any

**Non-Responsive**

**Non-Responsive**

Your short answer sounds good. Below are some long thoughts that don't change that, but we might want to refer back to.

**Non-Responsive**

**Non-Responsive**

**Non-Responsive**

d

**From:** CurryBrown, Amanda  
**Sent:** Wednesday, April 29, 2015 7:42 AM  
**To:** Evans, DavidA  
**Subject:** chapter 5 comments

# Non-Responsive

# Non-Responsive

**Amanda Curry Brown**

Health and Environmental Impacts Division

U.S. EPA Office of Air Quality Planning and Standards

919.541.3808

[CurryBrown.Amanda@epa.gov](mailto:CurryBrown.Amanda@epa.gov)

**To:** Shouse, Kate[Shouse.Kate@epa.gov]; Fawcett, Allen[Fawcett.Allen@epa.gov]  
**Bcc:** alex.marten; **Ex 6 - Alex Marten**  
**From:** Marten, Alex  
**Sent:** Tue 4/14/2015 8:30:19 PM  
**Subject:** RE: Interagency review of DoI Stream Protection Rule  
[2015\\_04\\_10\\_co2\\_benefits\\_of\\_stream\\_protection\\_rule.pdf](#)

No problem. Attached is a quick

**Ex 5**

**Ex 5**

I have been working under the assumption

**Ex 5**

**Ex 5**

, do you know if I am wrong on that assumption?

--

Alex L. Marten  
phone: [\(202\) 566-2301](tel:(202)566-2301)  
email: [marten.alex@epa.gov](mailto:marten.alex@epa.gov)

**From:** Shouse, Kate  
**Sent:** Tuesday, April 14, 2015 3:56 PM  
**To:** Fawcett, Allen  
**Cc:** Marten, Alex  
**Subject:** RE: Interagency review of DoI Stream Protection Rule

Thanks, Allen.

Alex, can you keep us posted on what

**Ex 5**

**Ex 5**

**From:** Fawcett, Allen  
**Sent:** Monday, April 13, 2015 5:44 PM  
**To:** Shouse, Kate; Alsalam, Jameel  
**Subject:** Fwd: Interagency review of DoI Stream Protection Rule

Fyi

---

Allen A. Fawcett, Ph.D.

Chief, Climate Economics Branch

U.S. EPA

O: 202 343-9436

**Ex 6 - Other**

Begin forwarded message:

**From:** "Harvey, Reid" <[Harvey.Reid@epa.gov](mailto:Harvey.Reid@epa.gov)>  
**Date:** April 13, 2015 at 4:38:23 PM EDT  
**To:** "Stenhouse, Jeb" <[Stenhouse.Jeb@epa.gov](mailto:Stenhouse.Jeb@epa.gov)>, "Fawcett, Allen" <[Fawcett.Allen@epa.gov](mailto:Fawcett.Allen@epa.gov)>, "Gunning, Paul" <[Gunning.Paul@epa.gov](mailto:Gunning.Paul@epa.gov)>  
**Subject:** **FW: Interagency review of DoI Stream Protection Rule**

FYI

**From:** Jenkins, Robin  
**Sent:** Monday, April 13, 2015 4:34 PM  
**To:** Lamson, Amy; Fann, Neal; Harvey, Reid; Hubbell, Bryan  
**Cc:** Ferris, Ann; McGartland, Al; Marten, Alex  
**Subject:** Interagency review of DoI Stream Protection Rule

Amy, Neal, Reid and Bryan:

DoI has a proposed Stream Protection rule

**Non-Responsive**

undergoing interagency review. NCEE is reviewing the RIA and working in coordination with OW who is reviewing the package. (The Army Corps is providing comments as well.)

A primary

Ex 5

**Ex 5**

Just wanting to let you know. Please let us know if you want more information.

Robin

Robin Jenkins

Senior Economist

National Center for Environmental Economics

US EPA

Washington DC

202-566-2292

**To:** Rowell, Arden[karowell@illinois.edu]  
**Bcc:** alex.marten; **Ex 6 - Alex Marten**  
**From:** Marten, Alex  
**Sent:** Mon 4/13/2015 8:38:36 PM  
**Subject:** RE: hi! and quick question on community/cultural artifact valuation in the SCC

Hi Arden,

My turn for question. Do you have any good examples of rules that have been vacated or remanded due to APA issues w/ the BCA? Specifically, ones that weren't associated with the SCC.

Thanks.

--

Alex L. Marten  
phone: (202) 566-2301  
email: [marten.alex@epa.gov](mailto:marten.alex@epa.gov)

**From:** Rowell, Arden [mailto:karowell@illinois.edu]  
**Sent:** Monday, April 06, 2015 12:49 PM  
**To:** Marten, Alex  
**Subject:** RE: hi! and quick question on community/cultural artifact valuation in the SCC

Neat! I'll go look. Thanks Alex!

Arden Rowell

Associate Professor and Richard W. and Marie L. Corman Scholar

University of Illinois College of Law

[karowell@illinois.edu](mailto:karowell@illinois.edu)

[http://papers.ssrn.com/sol3/cf\\_dev/AbsByAuth.cfm?per\\_id=1610155](http://papers.ssrn.com/sol3/cf_dev/AbsByAuth.cfm?per_id=1610155)



---

**From:** Marten, Alex [Marten.Alex@epa.gov]

**Sent:** Monday, April 06, 2015 11:26 AM

**To:** Rowell, Arden

**Subject:** RE: hi! and quick question on community/cultural artifact valuation in the SCC

**Ex 5**

It reminded me that the EU through the PESETA project has done some work w/ tourism, but I'm not sure if they have addressed this issue in there.

<http://peseta.jrc.ec.europa.eu/>

--

Alex L. Marten

phone: (202) 566-2301

email: [marten.alex@epa.gov](mailto:marten.alex@epa.gov)

**From:** Rowell, Arden [<mailto:karowell@illinois.edu>]

**Sent:** Monday, April 06, 2015 12:22 PM

**To:** Marten, Alex

**Subject:** RE: hi! and quick question on community/cultural artifact valuation in the SCC

Awesome--thanks so much. Particularly interesting re: the "everything else" box in the most recent DICE version. Seems like may be more opportunities to incorporate some sort of "special cultural value" measure as the models get better at determining localized & regional impact. Could look at tourist dollars spent or something. Apparently Mastercard creates a list every year of "most visited cities" [http://newsroom.mastercard.com/wp-content/uploads/2014/07/Mastercard\\_GDCI\\_2014\\_Letter\\_Final\\_70814.pdf](http://newsroom.mastercard.com/wp-content/uploads/2014/07/Mastercard_GDCI_2014_Letter_Final_70814.pdf) (Bangkok pretty much ties London--who would have thought?). Anyway, thanks again--super helpful!

PS What about Venice! Venice!!

Arden Rowell

Associate Professor and Richard W. and Marie L. Corman Scholar

University of Illinois College of Law

[karowell@illinois.edu](mailto:karowell@illinois.edu)

[http://papers.ssrn.com/sol3/cf\\_dev/AbsByAuth.cfm?per\\_id=1610155](http://papers.ssrn.com/sol3/cf_dev/AbsByAuth.cfm?per_id=1610155)

---

**From:** Marten, Alex [Marten.Alex@epa.gov]

**Sent:** Monday, April 06, 2015 11:05 AM

**To:** Rowell, Arden

**Subject:** RE: hi! and quick question on community/cultural artifact valuation in the SCC

Ex 5

But I will note that in earlier version of the DICE model Nordhaus had a human settlements category which he acknowledged was speculative, but this is the type of thing he was trying to capture. In the most recent version of DICE he has a catch all category which he might argue is trying to capture an adjustment for hard to measure things such as this. FUND does not account for this, and I don't recall any of the PAGE literature talking about this issue.

I hope that helps.

P.S. Your example made me smile because the Italians are really big on this point in general (not just wrt the IAMs) and bring it up all the time at international events.

--

Alex L. Marten

phone: (202) 566-2301

email: [marten.alex@epa.gov](mailto:marten.alex@epa.gov)

**From:** Rowell, Arden [<mailto:karowell@illinois.edu>]

**Sent:** Monday, April 06, 2015 11:57 AM

**To:** Marten, Alex

**Subject:** hi! and quick question on community/cultural artifact valuation in the SCC

Hi Alex! Hope all's well. Quick question: can you think of any examples within FUND, DICE, or PAGE of valuation of communities, groups, or cultural artifacts rather than individualized damage? So, e.g.,

suppose that someone thought that the culture of the Laplanders was important separate from individualized harm to individual Laplanders, or that Venice was important for cultural reasons that go beyond harm to Venetians. Anything in any of the IAMs on that? I was thinking there wasn't anything on any of that stuff in any of the models (and I guess there could be double-counting concerns if there were), but figured you'd be the person to know.

All best,

Arden Rowell

Associate Professor and Richard W. and Marie L. Corman Scholar

University of Illinois College of Law

[karowell@illinois.edu](mailto:karowell@illinois.edu)

[http://papers.ssrn.com/sol3/cf\\_dev/AbsByAuth.cfm?per\\_id=1610155](http://papers.ssrn.com/sol3/cf_dev/AbsByAuth.cfm?per_id=1610155)

**To:** Ferris, Ann[Ferris.Ann@epa.gov]; McGartland, Al[McGartland.Al@epa.gov]; Shadbegian, Ron[Shadbegian.Ron@epa.gov]; Jenkins, Robin[Jenkins.Robin@epa.gov]  
**Cc:** Durham, Natalie[Durham.Natalie@epa.gov]  
**Bcc:** alex.marten[Ex 6 - Alex Marten]  
**From:** Marten, Alex  
**Sent:** Fri 4/10/2015 10:03:40 PM  
**Subject:** RE: notes for monday's briefing: DOI stream protection rule  
2015 04 10 co2 benefits of stream protection rule.pdf

If anyone is so inclined to read the climate benefits memo I've attached a slightly updated version.

--

Alex L. Marten  
phone: (202) 566-2301  
email: [marten.alex@epa.gov](mailto:marten.alex@epa.gov)

**From:** Ferris, Ann  
**Sent:** Friday, April 10, 2015 4:16 PM  
**To:** Marten, Alex; McGartland, Al; Shadbegian, Ron; Jenkins, Robin  
**Cc:** Durham, Natalie  
**Subject:** notes for monday's briefing: DOI stream protection rule

Hi all,

I've attached 3 documents / sets of notes for our briefing Monday, on the DOI stream protection rule:

(1) **Non-Responsive**

(2)

(3) Alex's SCC calcs.

These will form the basis for our discussion Monday and written NCEE comments. We'll plan to write them up after Monday's briefing & send early next week.

Thanks,

Ann

564-3207

**To:** Shouse, Kate[Shouse.Kate@epa.gov]  
**Bcc:** alex.marten[Ex 6 - Alex Marten]  
**From:** Marten, Alex  
**Sent:** Thur 3/12/2015 8:06:40 PM  
**Subject:** RE: ch4 public comments

Thanks Kate this is great. I appreciate you taking the time to look this up. I think after the previous conversation you see why it would have been a useful tip if it had been the case, but I think at this point there is no reason to become >95% sure.

Thanks again.

--

Alex L. Marten  
phone: (202) 566-2301  
email: marten.alex@epa.gov

**From:** Shouse, Kate  
**Sent:** Thursday, March 12, 2015 2:32 PM  
**To:** Marten, Alex  
**Subject:** RE: ch4 public comments

Sorry this has taken so long. The short answer is that I'm 95% confident that we have not received any comments on Marten et al (2014) yet. I'd be surprised if there were any but would need more time to search 111(d) comments before making this assertion with upper management.

The longer answer is that 111(d) is the only rulemaking for which we could have received these comments and so far I have not found any mention of Marten et al. I checked the summary of public comments on benefits/costs compiled by RTI and did not find anything. However, RTI is still working on that compilation (80% done), so there is a small chance there is a comment on it that is not in there yet.

I've listed below the searches that I did in case that's useful:

- (1) Regulations.gov – searched “Marten” in the 111(d) comment submissions. (FYI, one of your 2011 SCC papers is referenced but no hits on the non-CO2 work)
- (2) Reviewed the letter on SCC submitted by EDF, NRDC, NYU, and UCS. Nothing really on non-CO2, they focused more on a strong recommendation to enumerate the CO2 omitted damages in the final rule.
- (3) Reviewed EPRI's SCC comments, nothing on non-CO2.
- (4) Came across some letters from Ctr for Biological Diversity, didn't see much on SCC.
- (5) Searched comment summary from RTI – not seeing much on non-CO2 in general.

Let me know if this is something we need to be more confident about this week. Thanks!

**From:** Marten, Alex  
**Sent:** Thursday, March 12, 2015 12:30 PM  
**To:** Shouse, Kate  
**Subject:** RE: ch4 public comments

Around June 3<sup>rd</sup>.

--

Alex L. Marten  
phone: (202) 566-2301  
email: marten.alex@epa.gov

**From:** Shouse, Kate  
**Sent:** Thursday, March 12, 2015 12:28 PM  
**To:** Marten, Alex  
**Subject:** RE: ch4 public comments

That's a good question. It's possible that someone may have commented on this in the EGU 111(d), which closed in December. I'll take a look – haven't gone through all of those comments yet. When did Marten et al (2014) get published online?

**From:** Marten, Alex  
**Sent:** Thursday, March 12, 2015 12:22 PM  
**To:** Shouse, Kate  
**Subject:** ch4 public comments

Kate, we haven't received any public comments related to the Marten et al. (2014) CH4 estimates, correct?

Thanks.

--

Alex L. Marten  
phone: (202) 566-2301  
email: [marten.alex@epa.gov](mailto:marten.alex@epa.gov)



**To:** Evans, DavidA[Evans.DavidA@epa.gov]; Simpson, David[Simpson.David@epa.gov]  
**Cc:** Wolverton, Ann[Wolverton.Ann@epa.gov]; Garbaccio, Richard[Garbaccio.Richard@epa.gov]  
**Bcc:** alex.marten; **Ex 6 - Alex Marten**  
**From:** Marten, Alex  
**Sent:** Wed 3/4/2015 8:34:10 PM  
**Subject:** RE: A somewhat more serious inquiry regarding economy-wide modeling

**Ex 5**

"While Pindyck's observations about the empirical weaknesses of IAMs or calculations of the SCC are worthy of careful study, the conclusion that IAMs are therefore useless fundamentally misconceives the enterprise. IAMs and the SCC are conceptual frameworks for dealing with highly complex, non-linear, dynamic, and uncertain systems. The human mind is incapable of solving all the equations simultaneously, and modeling allows making "If..., then..." analyses of the impacts of different factors. The models have provided important insights into many aspects of climate-change policy."

--

Alex L. Marten  
phone: (202) 566-2301  
email: [marten.alex@epa.gov](mailto:marten.alex@epa.gov)

**From:** Evans, DavidA  
**Sent:** Wednesday, March 04, 2015 3:01 PM  
**To:** Simpson, David  
**Cc:** Wolverton, Ann; Garbaccio, Richard; Marten, Alex  
**Subject:** RE: A somewhat more serious inquiry regarding economy-wide modeling

## Ex 5

**From:** Simpson, David  
**Sent:** Wednesday, March 04, 2015 2:59 PM  
**To:** Evans, DavidA  
**Cc:** Wolverton, Ann; Garbaccio, Richard; Marten, Alex  
**Subject:** A somewhat more serious inquiry regarding economy-wide modeling

Hey, economy-wide modelers,

My correspondence with Dave regarding the helpful suggestions you've received from some other corners reminded me that I wanted to ask you all another question.

**Ex 5**

# Ex 5

Is there an answer I'd understand?

David

**To:** Sherwood, Todd[sherwood.todd@epa.gov]; Shouse, Kate[Shouse.Kate@epa.gov]  
**Cc:** Davidson, Ken[Davidson.Ken@epa.gov]  
**Bcc:** alex.marten; **Ex 6 - Alex Marten**  
**From:** Marten, Alex  
**Sent:** Mon 2/23/2015 8:20:39 PM  
**Subject:** RE: RIA uses 2013 SCC Numbers

Sounds good. Thanks to you all for your patience in getting this straight.

--

Alex L. Marten  
phone: (202) 566-2301  
email: [marten.alex@epa.gov](mailto:marten.alex@epa.gov)

**From:** Sherwood, Todd  
**Sent:** Monday, February 23, 2015 3:14 PM  
**To:** Shouse, Kate; Marten, Alex  
**Cc:** Davidson, Ken  
**Subject:** RE: RIA uses 2013 SCC Numbers

**Ex 5**

Thanks to everyone.

**From:** Shouse, Kate  
**Sent:** Monday, February 23, 2015 2:49 PM  
**To:** Sherwood, Todd; Marten, Alex  
**Cc:** Davidson, Ken  
**Subject:** RE: RIA uses 2013 SCC Numbers

**Ex 5**

# Ex 5

Please let me know if you have any concerns or questions – happy to talk on the phone if easier to clarify. Thanks,  
Kate

**From:** Sherwood, Todd  
**Sent:** Monday, February 23, 2015 9:47 AM  
**To:** Shouse, Kate; Marten, Alex  
**Cc:** Davidson, Ken  
**Subject:** RE: RIA uses 2013 SCC Numbers

Kate & Alex,

# Ex 5

Thanks yet again.

T

**From:** Shouse, Kate  
**Sent:** Wednesday, February 18, 2015 3:02 PM  
**To:** Sherwood, Todd  
**Subject:** RE: RIA uses 2013 SCC Numbers

Thanks, that sounds good ☺ I haven't heard from Ken either and was also assuming that's he's out today.

**From:** Sherwood, Todd  
**Sent:** Wednesday, February 18, 2015 2:59 PM  
**To:** Shouse, Kate; Marten, Alex  
**Cc:** Davidson, Ken; Li, Jia; Klemick, Heather  
**Subject:** RE: RIA uses 2013 SCC Numbers

**Ex 5**

must be out of the office since he has not weighed in on any of this).

**From:** Shouse, Kate  
**Sent:** Wednesday, February 18, 2015 2:40 PM  
**To:** Sherwood, Todd; Marten, Alex  
**Cc:** Davidson, Ken; Li, Jia; Klemick, Heather  
**Subject:** RE: RIA uses 2013 SCC Numbers

**Ex 5**

# Ex 5

**From:** Sherwood, Todd  
**Sent:** Wednesday, February 18, 2015 12:22 PM  
**To:** Shouse, Kate; Marten, Alex  
**Cc:** Davidson, Ken; Li, Jia; Klemick, Heather  
**Subject:** RE: RIA uses 2013 SCC Numbers

# Ex 5

Again, sorry for being so detailed about this.

**From:** Shouse, Kate  
**Sent:** Wednesday, February 18, 2015 12:00 PM  
**To:** Marten, Alex; Sherwood, Todd  
**Cc:** Davidson, Ken; Li, Jia; Klemick, Heather  
**Subject:** RE: RIA uses 2013 SCC Numbers

# Ex 5

Todd, does this give you what you need or would it be helpful to talk on the phone today?

**From:** Marten, Alex  
**Sent:** Tuesday, February 17, 2015 11:31 AM  
**To:** Sherwood, Todd; Shouse, Kate  
**Cc:** Davidson, Ken; Li, Jia; Klemick, Heather  
**Subject:** Re: RIA uses 2013 SCC Numbers

Hi Todd,

# Ex 5

Kate, what do you think?

--

Alex Marten

[marten.alex@epa.gov](mailto:marten.alex@epa.gov)

---



**From:** Sherwood, Todd  
**Sent:** Tuesday, February 17, 2015 10:59 AM  
**To:** Marten, Alex; Shouse, Kate  
**Cc:** Davidson, Ken; Li, Jia; Klemick, Heather  
**Subject:** RE: RIA uses 2013 SCC Numbers

Alex/Kate,

**Ex 5**

Thank you.

Todd

**From:** Marten, Alex  
**Sent:** Tuesday, February 17, 2015 10:18 AM  
**To:** Shouse, Kate  
**Cc:** Sherwood, Todd; Davidson, Ken; Li, Jia; Klemick, Heather  
**Subject:** Re: RIA uses 2013 SCC Numbers

**Ex 5**

I'm happy to discuss this further.

--

Alex Marten

[marten.alex@epa.gov](mailto:marten.alex@epa.gov)

---

**From:** Shouse, Kate  
**Sent:** Tuesday, February 17, 2015 9:43 AM  
**To:** Marten, Alex  
**Cc:** Sherwood, Todd; Davidson, Ken; Li, Jia; Klemick, Heather  
**Subject:** Fwd: RIA uses 2013 SCC Numbers

**Ex 5**

Thanks,  
Kate

----- Forwarded message -----  
**From:** Shouse, Kate <[Shouse.Kate@epa.gov](mailto:Shouse.Kate@epa.gov)>  
**Date:** Tue, Feb 17, 2015 at 9:29 AM  
**Subject:** Fwd: RIA uses 2013 SCC Numbers  
**To:** Kate Shouse { **Ex 6 - Kate Shouse** }

Sent from my iPhone

Begin forwarded message:

**From:** "Sherwood, Todd" <[sherwood.todd@epa.gov](mailto:sherwood.todd@epa.gov)>

**Date:** February 17, 2015 at 9:16:20 AM EST  
**To:** "Davidson, Ken" <[Davidson.Ken@epa.gov](mailto:Davidson.Ken@epa.gov)>, "Li, Jia" <[Li.Jia@epa.gov](mailto:Li.Jia@epa.gov)>,  
"Shouse, Kate" <[Shouse.Kate@epa.gov](mailto:Shouse.Kate@epa.gov)>  
**Cc:** "Choi, David" <[Choi.David@epa.gov](mailto:Choi.David@epa.gov)>  
**Subject:** FW: RIA uses 2013 SCC Numbers

The issue here is as follows:

**Ex 5**

**From:** [James.MacIsaac@dot.gov](mailto:James.MacIsaac@dot.gov) [mailto:[James.MacIsaac@dot.gov](mailto:James.MacIsaac@dot.gov)]  
**Sent:** Friday, February 13, 2015 5:17 PM  
**To:** Choi, David; Davidson, Ken; Sherwood, Todd  
**Cc:** Spears, Matthew; Moulis, Charles; [james.tamm@dot.gov](mailto:james.tamm@dot.gov);  
[Analiese.Marchesseault@dot.gov](mailto:Analiese.Marchesseault@dot.gov); [ryan.hagen@dot.gov](mailto:ryan.hagen@dot.gov); [rebecca.yoon@dot.gov](mailto:rebecca.yoon@dot.gov);  
[Coralie.Cooper@dot.gov](mailto:Coralie.Cooper@dot.gov); [Kevin.Green@dot.gov](mailto:Kevin.Green@dot.gov); [Don.Pickrell@dot.gov](mailto:Don.Pickrell@dot.gov); [Ryan.Keefe@dot.gov](mailto:Ryan.Keefe@dot.gov);  
[Walter.Gazda@dot.gov](mailto:Walter.Gazda@dot.gov); [russell.krupen@dot.gov](mailto:russell.krupen@dot.gov); [megan.brown@dot.gov](mailto:megan.brown@dot.gov)  
**Subject:** FW: RIA uses 2013 SCC Numbers

David, Todd, & Ken,

**Ex 5**

# Ex 5

Thanks,

Jamie

***James D. MacIsaac Jr. (Jamie)***

*General Engineer*

*Fuel Economy Division, NVS-132*

*Office of International Policy, Fuel Economy & Consumer Programs*

*U.S. Department of Transportation*

*National Highway Traffic Safety Administration (NHTSA)*

*West Building, W43-444*

*1200 New Jersey Ave, SE*

*Washington, DC 20590*

*Tel: (202) 366-9108*

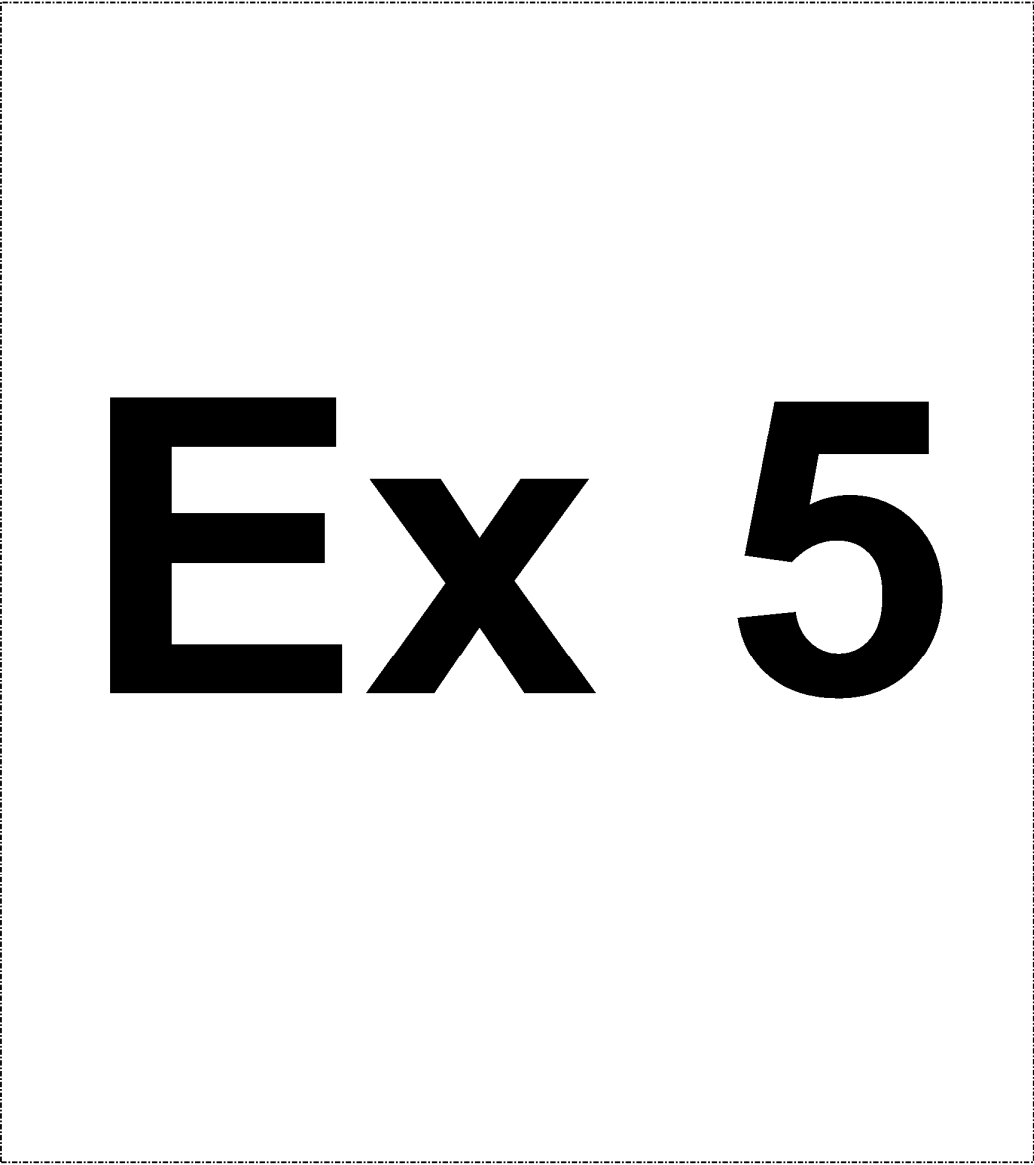
*Fax: (202) 493-2990*

*[james.macisaac@dot.gov](mailto:james.macisaac@dot.gov)*

*[www.NHTSA.gov](http://www.NHTSA.gov)*

**From:** Riley-Gilbert, Marybeth [<mailto:Marybeth.Riley-Gilbert@icfi.com>]  
**Sent:** Wednesday, February 11, 2015 2:50 PM  
**To:** Hagen, Ryan (NHTSA); MacIsaac, James (NHTSA); Venezia, John  
**Cc:** Powers, Sarah; Diller, Elizabeth; Cooper, Coralie (VOLPE); Krupen, Russell (NHTSA); Brown, Megan (NHTSA); Marchesseault, Analiese (NHTSA)  
**Subject:** RE: RIA uses 2013 SCC Numbers

Hi All-



Ex 5

# Ex 5

**To:** Shouse, Kate[Shouse.Kate@epa.gov]

**Bcc:** alex.marten[Ex 6 - Alex Marten]

**From:** Marten, Alex

**Sent:** Mon 2/23/2015 3:49:31 PM

**Subject:** RE: RIA uses 2013 SCC Numbers

Hi Kate,

Can you give me a call about this when you get a chance.

This is in fact what we discussed over email, but seeing this reminded me of another issue for which we (ncee) don't have a strong opinion, but wanted to get your opinion before we get back to Todd.

Thanks.

--

Alex L. Marten

phone: (202) 566-2301

email: [marten.alex@epa.gov](mailto:marten.alex@epa.gov)

**From:** Shouse, Kate

**Sent:** Monday, February 23, 2015 10:40 AM

**To:** Sherwood, Todd

**Cc:** Marten, Alex; Davidson, Ken

**Subject:** Re: RIA uses 2013 SCC Numbers

## Ex 6 - Other

Kate

Sent from my iPhone

On Feb 23, 2015, at 9:47 AM, "Sherwood, Todd" <[sherwood.todd@epa.gov](mailto:sherwood.todd@epa.gov)> wrote:

Kate & Alex,

**Ex 5**

Thanks yet again.

T

**From:** Shouse, Kate  
**Sent:** Wednesday, February 18, 2015 3:02 PM  
**To:** Sherwood, Todd  
**Subject:** RE: RIA uses 2013 SCC Numbers

Thanks, that sounds good ☺ I haven't heard from Ken either and was also assuming that's he's out today.

**From:** Sherwood, Todd



**Sent:** Wednesday, February 18, 2015 2:59 PM  
**To:** Shouse, Kate; Marten, Alex  
**Cc:** Davidson, Ken; Li, Jia; Klemick, Heather  
**Subject:** RE: RIA uses 2013 SCC Numbers

**Ex 5**

he must be out of the office since he has not weighed in on any of this).

**From:** Shouse, Kate  
**Sent:** Wednesday, February 18, 2015 2:40 PM  
**To:** Sherwood, Todd; Marten, Alex  
**Cc:** Davidson, Ken; Li, Jia; Klemick, Heather  
**Subject:** RE: RIA uses 2013 SCC Numbers

**Ex 5**

**From:** Sherwood, Todd  
**Sent:** Wednesday, February 18, 2015 12:22 PM  
**To:** Shouse, Kate; Marten, Alex  
**Cc:** Davidson, Ken; Li, Jia; Klemick, Heather  
**Subject:** RE: RIA uses 2013 SCC Numbers

# Ex 5

Again, sorry for being so detailed about this.

**From:** Shouse, Kate  
**Sent:** Wednesday, February 18, 2015 12:00 PM  
**To:** Marten, Alex; Sherwood, Todd  
**Cc:** Davidson, Ken; Li, Jia; Klemick, Heather  
**Subject:** RE: RIA uses 2013 SCC Numbers

# Ex 5

**From:** Marten, Alex  
**Sent:** Tuesday, February 17, 2015 11:31 AM  
**To:** Sherwood, Todd; Shouse, Kate

**Cc:** Davidson, Ken; Li, Jia; Klemick, Heather  
**Subject:** Re: RIA uses 2013 SCC Numbers

Hi Todd,

**Ex 5**

Kate, what do you think?

--

Alex Marten

[marten.alex@epa.gov](mailto:marten.alex@epa.gov)

---

**From:** Sherwood, Todd  
**Sent:** Tuesday, February 17, 2015 10:59 AM  
**To:** Marten, Alex; Shouse, Kate  
**Cc:** Davidson, Ken; Li, Jia; Klemick, Heather  
**Subject:** RE: RIA uses 2013 SCC Numbers

Alex/Kate,

**Ex 5**

## Ex 5

Thank you.

Todd

**From:** Marten, Alex  
**Sent:** Tuesday, February 17, 2015 10:18 AM  
**To:** Shouse, Kate  
**Cc:** Sherwood, Todd; Davidson, Ken; Li, Jia; Klemick, Heather  
**Subject:** Re: RIA uses 2013 SCC Numbers

# Ex 5

I'm happy to discuss this further.

--

Alex Marten

[marten.alex@epa.gov](mailto:marten.alex@epa.gov)

---

**From:** Shouse, Kate  
**Sent:** Tuesday, February 17, 2015 9:43 AM  
**To:** Marten, Alex  
**Cc:** Sherwood, Todd; Davidson, Ken; Li, Jia; Klemick, Heather  
**Subject:** Fwd: RIA uses 2013 SCC Numbers

# Ex 5

Thanks,  
Kate

----- Forwarded message -----

From: **Shouse, Kate** <[Shouse.Kate@epa.gov](mailto:Shouse.Kate@epa.gov)>

Date: Tue, Feb 17, 2015 at 9:29 AM

Subject: Fwd: RIA uses 2013 SCC Numbers

To: Kate Shouse

**Ex 6 - Kate Shouse**

Sent from my iPhone

Begin forwarded message:

From: "Sherwood, Todd" <[sherwood.todd@epa.gov](mailto:sherwood.todd@epa.gov)>

Date: February 17, 2015 at 9:16:20 AM EST

To: "Davidson, Ken" <[Davidson.Ken@epa.gov](mailto:Davidson.Ken@epa.gov)>, "Li, Jia" <[Li.Jia@epa.gov](mailto:Li.Jia@epa.gov)>,

"Shouse, Kate" <[Shouse.Kate@epa.gov](mailto:Shouse.Kate@epa.gov)>

Cc: "Choi, David" <[Choi.David@epa.gov](mailto:Choi.David@epa.gov)>

Subject: FW: RIA uses 2013 SCC Numbers

The issue here is as follows:

# Ex 5

# Ex 5

**From:** [James.MacIsaac@dot.gov](mailto:James.MacIsaac@dot.gov) [mailto:[James.MacIsaac@dot.gov](mailto:James.MacIsaac@dot.gov)]  
**Sent:** Friday, February 13, 2015 5:17 PM  
**To:** Choi, David; Davidson, Ken; Sherwood, Todd  
**Cc:** Spears, Matthew; Moulis, Charles; [james.tamm@dot.gov](mailto:james.tamm@dot.gov);  
[Analiese.Marchesseault@dot.gov](mailto:Analiese.Marchesseault@dot.gov); [ryan.hagen@dot.gov](mailto:ryan.hagen@dot.gov); [rebecca.yoon@dot.gov](mailto:rebecca.yoon@dot.gov);  
[Coralie.Cooper@dot.gov](mailto:Coralie.Cooper@dot.gov); [Kevin.Green@dot.gov](mailto:Kevin.Green@dot.gov); [Don.Pickrell@dot.gov](mailto:Don.Pickrell@dot.gov);  
[Ryan.Keefe@dot.gov](mailto:Ryan.Keefe@dot.gov); [Walter.Gazda@dot.gov](mailto:Walter.Gazda@dot.gov); [russell.krupen@dot.gov](mailto:russell.krupen@dot.gov);  
[megan.brown@dot.gov](mailto:megan.brown@dot.gov)  
**Subject:** FW: RIA uses 2013 SCC Numbers

David, Todd, & Ken,

# Ex 5

Thanks,

Jamie

***James D. MacIsaac Jr. (Jamie)***

*General Engineer*

*Fuel Economy Division, NVS-132*

*Office of International Policy, Fuel Economy & Consumer Programs*

*U.S. Department of Transportation*

*National Highway Traffic Safety Administration (NHTSA)*

*West Building, W43-444*

*1200 New Jersey Ave, SE*

*Washington, DC 20590*

*Tel: (202) 366-9108*

*Fax: (202) 493-2990*

*[james.macisaac@dot.gov](mailto:james.macisaac@dot.gov)*

*[www.NHTSA.gov](http://www.NHTSA.gov)*

**From:** Riley-Gilbert, Marybeth [<mailto:Marybeth.Riley-Gilbert@icfi.com>]

**Sent:** Wednesday, February 11, 2015 2:50 PM

**To:** Hagen, Ryan (NHTSA); MacIsaac, James (NHTSA); Venezia, John

**Cc:** Powers, Sarah; Diller, Elizabeth; Cooper, Coralie (VOLPE); Krupen, Russell (NHTSA); Brown, Megan (NHTSA); Marchesseault, Analiese (NHTSA)

**Subject:** RE: RIA uses 2013 SCC Numbers

Hi All-

# Ex 5

<SCC calculation example for Alex Marten & Kate Shouse\_20150223.xlsx>



**To:** Evans, DavidA[Evans.DavidA@epa.gov]; Shadbegian, Ron[Shadbegian.Ron@epa.gov]; Ferris, Ann[Ferris.Ann@epa.gov]  
**Bcc:** alex.marten; Ex 6 - Alex Marten  
**From:** Marten, Alex  
**Sent:** Wed 2/18/2015 9:16:40 PM  
**Subject:** RE: Heritage study on job loss due to CPP  
2015 02 18 Heritage Foundation employment study breifing material.docx

Here is my suggestion. There are still a few outstanding issues to clean up.

--

Alex L. Marten  
phone: (202) 566-2301  
email: marten.alex@epa.gov

**From:** Evans, DavidA  
**Sent:** Wednesday, February 18, 2015 3:50 PM  
**To:** Marten, Alex; Shadbegian, Ron; Ferris, Ann  
**Subject:** RE: Heritage study on job loss due to CPP

# Non-Responsive

# Non-Responsive

**From:** Marten, Alex  
**Sent:** Wednesday, February 18, 2015 3:24 PM

**To:** Shadbegian, Ron; Ferris, Ann; Evans, DavidA  
**Subject:** RE: Heritage study on job loss due to CPP

# Non-Responsive

--

Alex L. Marten  
phone: (202) 566-2301  
email: marten.alex@epa.gov

**From:** Shadbegian, Ron  
**Sent:** Wednesday, February 18, 2015 2:53 PM  
**To:** Ferris, Ann; Marten, Alex; Evans, DavidA  
**Subject:** RE: Heritage study on job loss due to CPP

Non-Responsive

Minus Ann W – she was added by accident.

Ron

**From:** Ferris, Ann  
**Sent:** Wednesday, February 18, 2015 2:43 PM  
**To:** Shadbegian, Ron; Marten, Alex; Evans, DavidA; Wolverton, Ann  
**Subject:** FW: Heritage study on job loss due to CPP

Here are some first draft thoughts. Please revise, edit, etc. as you see fit.

Once we have an NCEE draft we can circulate back to the group.

Thanks,

Ann

564-3207

**From:** Shadbegian, Ron  
**Sent:** Wednesday, February 18, 2015 12:26 PM  
**To:** Kaufman, Kathy; Barron, Alex; Marten, Alex; McGartland, Al; Evans, DavidA; Wolverton, Ann; Ferris, Ann  
**Cc:** Kurlansky, Ellen  
**Subject:** RE: Heritage study on job loss due to CPP

Sure.

**From:** Kaufman, Kathy  
**Sent:** Wednesday, February 18, 2015 12:25 PM  
**To:** Shadbegian, Ron; Barron, Alex; Marten, Alex; McGartland, Al; Evans, DavidA; Wolverton, Ann; Ferris, Ann  
**Cc:** Kurlansky, Ellen  
**Subject:** RE: Heritage study on job loss due to CPP

Ron, can we also see what you come up with? We might have some general points to add.

**From:** Shadbegian, Ron

**Sent:** Wednesday, February 18, 2015 12:08 PM

**To:** Barron, Alex; Marten, Alex; McGartland, Al; Evans, DavidA; Wolverton, Ann; Ferris, Ann

**Cc:** Kurlansky, Ellen; Kaufman, Kathy

**Subject:** RE: Heritage study on job loss due to CPP

Sure. We'll have something to you by COB today.

Ron

**From:** Barron, Alex

**Sent:** Wednesday, February 18, 2015 11:58 AM

**To:** Marten, Alex; Shadbegian, Ron; McGartland, Al; Evans, DavidA; Wolverton, Ann; Ferris, Ann

**Cc:** Kurlansky, Ellen; Kaufman, Kathy

**Subject:** RE: Heritage study on job loss due to CPP

OCIR has asked that we pull together a very short Q&A for the Administrators budget hearing on this.

**Non-Responsive**

**Non-Responsive**

Cc'ing OAR folks in case they already did something on the earlier Heritage work.

Alex

**From:** Marten, Alex  
**Sent:** Wednesday, February 18, 2015 11:43 AM  
**To:** Barron, Alex; Shadbegian, Ron; McGartland, Al; Evans, DavidA; Wolverton, Ann; Ferris, Ann  
**Subject:** RE: Heritage study on job loss due to CPP

# Non-Responsive

--

Alex L. Marten  
phone: (202) 566-2301  
email: marten.alex@epa.gov

**From:** Barron, Alex  
**Sent:** Wednesday, February 18, 2015 11:10 AM  
**To:** Marten, Alex; Shadbegian, Ron; McGartland, Al; Evans, DavidA; Wolverton, Ann; Ferris, Ann  
**Subject:** RE: Heritage study on job loss due to CPP

And can we tell if

## Non-Responsive

**From:** Marten, Alex  
**Sent:** Wednesday, February 18, 2015 10:59 AM  
**To:** Barron, Alex; Shadbegian, Ron; McGartland, Al; Evans, DavidA; Wolverton, Ann; Ferris, Ann  
**Subject:** RE: Heritage study on job loss due to CPP

## Non-Responsive

--

Alex L. Marten  
phone: (202) 566-2301  
email: marten.alex@epa.gov

**From:** Barron, Alex  
**Sent:** Wednesday, February 18, 2015 10:58 AM  
**To:** Marten, Alex; Shadbegian, Ron; McGartland, Al; Evans, DavidA; Wolverton, Ann; Ferris, Ann  
**Subject:** RE: Heritage study on job loss due to CPP

What's the date on the original study?

**From:** Marten, Alex  
**Sent:** Wednesday, February 18, 2015 10:55 AM  
**To:** Shadbegian, Ron; Barron, Alex; McGartland, Al; Evans, DavidA; Wolverton, Ann; Ferris, Ann  
**Subject:** RE: Heritage study on job loss due to CPP

Alex, you are correct about that. It's based on the SCC

Ex 5

**Non-Responsive**

--

Alex L. Marten  
phone: (202) 566-2301  
email: marten.alex@epa.gov

**From:** Shadbegian, Ron  
**Sent:** Wednesday, February 18, 2015 10:52 AM  
**To:** Barron, Alex; McGartland, Al; Marten, Alex; Evans, DavidA; Wolverton, Ann; Ferris, Ann

**Subject:** RE: Heritage study on job loss due to CPP

Ann F and I are looking into this now.

Ron

**From:** Barron, Alex

**Sent:** Wednesday, February 18, 2015 10:47 AM

**To:** McGartland, Al; Marten, Alex; Evans, DavidA; Wolverton, Ann; Ferris, Ann; Shadbegian, Ron

**Subject:** RE: Heritage study on job loss due to CPP

Is this simply taking an analysis from before we proposed the rule  
**Non-Responsive** and then disaggregating it state by state,?  
folks know.

**Non-Responsive**

If so, I should let the comms

Alex

**From:** McGartland, Al

**Sent:** Wednesday, February 18, 2015 10:40 AM

**To:** Barron, Alex; Marten, Alex; Evans, DavidA; Wolverton, Ann; Ferris, Ann; Shadbegian, Ron

**Subject:** Heritage study on job loss due to CPP

[http://dailysignal.com/2015/02/17/study-obamas-carbon-rules-could-cost-thousands-of-manufacturing-jobs-in-your-state/?utm\\_source=heritagefoundation&utm\\_medium=email&utm\\_campaign=morningbell&mkt\\_tok=3RkMMJ](http://dailysignal.com/2015/02/17/study-obamas-carbon-rules-could-cost-thousands-of-manufacturing-jobs-in-your-state/?utm_source=heritagefoundation&utm_medium=email&utm_campaign=morningbell&mkt_tok=3RkMMJ)

[http://thf\\_media.s3.amazonaws.com/2014/pdf/IB4158.pdf](http://thf_media.s3.amazonaws.com/2014/pdf/IB4158.pdf)



**To:** Shouse, Kate[Shouse.Kate@epa.gov]  
**Cc:** Sarofim, Marcus[Sarofim.Marcus@epa.gov]  
**Bcc:** alex.marten[Ex 6 - Alex Marten]  
**From:** Marten, Alex  
**Sent:** Wed 2/18/2015 2:34:01 PM  
**Subject:** RE: SCC RTC Comments

No worries. At least it was in the last link of the review chain.

--

Alex L. Marten  
phone: (202) 566-2301  
email: [marten.alex@epa.gov](mailto:marten.alex@epa.gov)

**From:** Shouse, Kate  
**Sent:** Wednesday, February 18, 2015 9:33 AM  
**To:** Marten, Alex  
**Cc:** Sarofim, Marcus  
**Subject:** Re: SCC RTC Comments

Oh no, this is my mistake. Looks like I sent the wrong file to Marcus, so I think the version attached is an old one with new comments from Marcus. I will compare as soon as I get back to my desk and see whether Marcus' comments are applicable to current draft. Really, really sorry about this. Significant sleep deprivation is catching up with me.

Sent from my iPhone

On Feb 18, 2015, at 9:14 AM, "Marten, Alex" <[Marten.Alex@epa.gov](mailto:Marten.Alex@epa.gov)> wrote:

Hi Marcus,

Did you mean to attach another file? This seems to be an earlier version.

The one Charles sent around Friday had the name '2015 02 07 SCC RTC

Clean for Interagency Review\_aw\_jl\_sn\_cg.docx'.

Thanks.

--

Alex L. Marten  
phone: (202) 566-2301  
email: marten.alex@epa.gov

**From:** Sarofim, Marcus  
**Sent:** Monday, February 16, 2015 3:21 PM  
**To:** Shouse, Kate; Griffiths, Charles; Newbold, Steve; Marten, Alex; Li, Jia  
**Cc:** Wolverton, Ann  
**Subject:** RE: SCC RTC Comments

Hi all,

I've added my comments to a version that Kate worked on. I mostly concentrated on the climate science sections. Who is next?

-Marcus

Marcus C. Sarofim, PhD  
phone: 202-343-9993  
WJC East 4410M  
Environmental Scientist  
Climate Science & Impacts Branch

**From:** Shouse, Kate  
**Sent:** Friday, February 13, 2015 8:49 AM

**To:** Griffiths, Charles; Newbold, Steve; Marten, Alex; Li, Jia; Sarofim, Marcus  
**Cc:** Wolverton, Ann  
**Subject:** Re: SCC RTC Comments

Yes, thanks, Charles!

---

**From:** Griffiths, Charles  
**Sent:** Friday, February 13, 2015 7:52 AM  
**To:** Newbold, Steve; Marten, Alex; Li, Jia; Shouse, Kate; Sarofim, Marcus  
**Cc:** Wolverton, Ann  
**Subject:** RE: SCC RTC Comments

Enclosed are my comments on the RTC. I focused on Section 2, but I made a few comments in other places as well.

I think that Kate is up next, right?

Charles

\*\*\*\*\*

Charles Griffiths  
National Center for Environmental Economics  
Room 4334B, WJC West, Mail Code 1809T  
U.S. Environmental Protection Agency  
1200 Pennsylvania Avenue, N.W.  
Washington, D.C. 20460  
Phone: 202/566-2288      Fax: 202/566-2338  
Email: [griffiths.charles@epamail.epa.gov](mailto:griffiths.charles@epamail.epa.gov)

\*\*\*\*\*

**From:** Newbold, Steve  
**Sent:** Wednesday, February 11, 2015 9:34 AM  
**To:** Marten, Alex; Griffiths, Charles; Li, Jia; Shouse, Kate; Sarofim, Marcus  
**Cc:** Wolverton, Ann  
**Subject:** RE: SCC RTC Comments

Hi Alex,

My comments are included in the attached version.

Ex 5

Ex 5

I made some minor-ish suggestions for wording changes here and there, and I included a few substantive comments in comment bubbles. Some of these have no associated in-line text edit suggestion.

Ex 5

Ex 5

So please just consider these and let me know if you want to talk about any of them further.

I've also attached the two papers by Arrow et al plus my own notes on the RFF discounting conference as supporting material for my comment on p 23, and a brief note in the file "SCC\_mean\_vs\_median.pdf" as supporting material for my comment on p 25. (My conclusion in this note is probably an obvious one, but I still found it useful if only for my own purposes to write this out explicitly.)

Thanks,

\*\*\*\*\*

Steve Newbold  
U.S. EPA  
National Center for Environmental Economics (NCEE)  
EPA West, 4316T, MC 1809T  
1200 Pennsylvania Ave NW

Washington, DC 20004  
(202) 566-2293

\*\*\*\*\*

**From:** Marten, Alex  
**Sent:** Tuesday, February 10, 2015 3:24 PM  
**To:** Griffiths, Charles; Newbold, Steve; Li, Jia; Shouse, Kate; Sarofim, Marcus  
**Cc:** Wolverton, Ann  
**Subject:** RE: SCC RTC Comments

That sounds like a great plan. Thank you!

--

Alex L. Marten  
phone: (202) 566-2301  
email: [marten.alex@epa.gov](mailto:marten.alex@epa.gov)

**From:** Griffiths, Charles  
**Sent:** Tuesday, February 10, 2015 2:37 PM  
**To:** Newbold, Steve; Marten, Alex; Li, Jia; Shouse, Kate; Sarofim, Marcus  
**Cc:** Wolverton, Ann  
**Subject:** RE: SCC RTC Comments

How about if Steve takes his turn tomorrow and I'll take Thursday.

\*\*\*\*\*

Charles Griffiths

National Center for Environmental Economics  
Room 4334B, WJC West, Mail Code 1809T  
U.S. Environmental Protection Agency  
1200 Pennsylvania Avenue, N.W.  
Washington, D.C. 20460

Phone: 202/566-2288 Fax: 202/566-2338

Email: [griffiths.charles@epamail.epa.gov](mailto:griffiths.charles@epamail.epa.gov)

\*\*\*\*\*

**From:** Newbold, Steve  
**Sent:** Tuesday, February 10, 2015 2:16 PM  
**To:** Marten, Alex; Li, Jia; Shouse, Kate; Griffiths, Charles; Sarofim, Marcus  
**Cc:** Wolverton, Ann  
**Subject:** RE: SCC RTC Comments

I can start working on it tomorrow morning (or possibly this eve if someone else wants to take a quick crack at it first)

**From:** Marten, Alex  
**Sent:** Tuesday, February 10, 2015 2:13 PM  
**To:** Li, Jia; Shouse, Kate; Griffiths, Charles; Newbold, Steve; Sarofim, Marcus  
**Cc:** Wolverton, Ann  
**Subject:** RE: SCC RTC Comments

Charles, Steve, Marcus, Kate any takers on the pen?

--

Alex L. Marten  
phone: (202) 566-2301  
email: [marten.alex@epa.gov](mailto:marten.alex@epa.gov)

**From:** Li, Jia  
**Sent:** Tuesday, February 10, 2015 1:19 PM  
**To:** Marten, Alex; Shouse, Kate; Griffiths, Charles; Newbold, Steve; Sarofim, Marcus  
**Cc:** Wolverton, Ann  
**Subject:** Re: SCC RTC Comments

Passing on my comments on top of Ann's for the next reviewer.

Thanks!

Jia

---

**From:** Marten, Alex  
**Sent:** Monday, February 9, 2015 6:16 PM  
**To:** Li, Jia; Shouse, Kate; Griffiths, Charles; Newbold, Steve; Sarofim, Marcus  
**Cc:** Wolverton, Ann  
**Subject:** RE: SCC RTC Comments

OK I think I may have figured it out. Jai try going into:

Options->Trust Center->Trust Center Settings->Privacy Options

And then uncheck the box "Remove personal information from file properties on save"

--

Alex L. Marten  
phone: (202) 566-2301  
email: [marten.alex@epa.gov](mailto:marten.alex@epa.gov)

**From:** Li, Jia  
**Sent:** Monday, February 09, 2015 5:59 PM  
**To:** Marten, Alex; Shouse, Kate; Griffiths, Charles; Newbold, Steve; Sarofim, Marcus  
**Cc:** Wolverton, Ann  
**Subject:** RE: SCC RTC Comments

Alex:

Thanks! I have started the review and can add my comments to the version with Ann's comments next. One quick question: I noticed that the document automatically revert all changes to a generic "author" when saving changes to the document. Do you want us to identify ourselves in case you need to clarify or follow up on individual comments or edits? If so, any suggestion on how to change the option setting to do that? This may not be so important but will just be a little hard to keep track of different people's comments.

Jia

**From:** Marten, Alex  
**Sent:** Monday, February 09, 2015 5:49 PM  
**To:** Shouse, Kate; Li, Jia; Griffiths, Charles; Newbold, Steve; Sarofim, Marcus  
**Cc:** Wolverton, Ann  
**Subject:** SCC RTC Comments

Hi All,

I believe this is the correct list of staff who might be interested in reviewing the draft RTC. To avoid having to merge different sets of comments I am hoping we can stage the review. Ann took a first crack at this today and has added her comments in the attached. I believe Jia has the pen next.

I would like to have the staff review done by next Wednesday (2/18)



COB to have time for management review. That gives one work day per person to get through this which should be enough as we are

Ex 5

Ex 5

the large time commitment that is already in this version. Please focus on issues related to technical accuracy of the way in which the comments are represented and the response.

Thank you.

--

Alex L. Marten  
phone: (202) 566-2301  
email: marten.alex@epa.gov

**To:** Li, Jia[Li.Jia@epa.gov]  
**Cc:** Shouse, Kate[Shouse.Kate@epa.gov]  
**Bcc:** alex.marten[Ex 6 - Alex Marten]  
**From:** Marten, Alex  
**Sent:** Mon 2/9/2015 11:09:11 PM  
**Subject:** RE: questions on rtc document

Hi Jai,

I am going to take your questions in stages.

**Ex 5**

- Yes this current version should be considered nearly final being reviewed for technical accuracy. I would suggest that inconsistencies fall into this category and we would really want to know about them. The background on the first two pages and the "introduction" section should be considered the most set, as the current version has undergone management review already.

**Ex 5**

**Ex 5**

Sorry for any confusion.

--

Alex L. Marten  
phone: (202) 566-2301  
email: marten.alex@epa.gov

**From:** Li, Jia  
**Sent:** Monday, February 09, 2015 5:53 PM  
**To:** Marten, Alex  
**Cc:** Shouse, Kate  
**Subject:** questions on rtc document

Hi Alex:

I am currently reviewing the RtC and have a couple of questions.

**Ex 5**

**Ex 5**

**Ex 5**

**Ex 5**

I also just saw your email regarding the guidance for review.

**Ex 5**

**Ex 5**

Many thanks!

Jia

**To:** Snyder, Brett[Snyder.Brett@epa.gov]  
**Cc:** Newbold, Steve[newbold.steve@epa.gov]; McGartland, Al[McGartland.Al@epa.gov]  
**Bcc:** alex.marten[Ex 6 - Alex Marten]  
**From:** Marten, Alex  
**Sent:** Mon 2/9/2015 5:12:56 PM  
**Subject:** RE: Some news on the personnel front - visiting scholars X2

Hi Brett,

That is great news that Mark will be joining us.

**Ex 5**

Thanks.

--

Alex L. Marten  
phone: (202) 566-2301  
email: [marten.alex@epa.gov](mailto:marten.alex@epa.gov)

**From:** Snyder, Brett  
**Sent:** Friday, February 06, 2015 3:44 PM  
**To:** OP-NCEE-Everyone  
**Subject:** Some news on the personnel front - visiting scholars X2

Hi - we have been working on establishing new temporary assignments for two visiting scholars, and the administrative processes for each have reached the point where we can more widely share some of the particulars with staff.

1. We are negotiating with the University of Central Florida to establish a detail assignment for Dr. Mark Dickie to work with NCEE on a temporary assignment designed to last for 12-13 months and starting this coming June. His department and provost are supportive of the arrangement, and we are working out the particulars on the cost sharing arrangement with the university HR and finance offices. Because the university is able to partially finance his salary/benefits during his detail assignment, this has helped to make the arrangement feasible to establish with our office. Mark enjoyed his visit to NCEE in early January and we agreed that his research and interests dovetailed nicely with our own efforts to make further progress in health benefits methods and estimation. As we make further progress on the agreement and approach his start date, I expect we will make some additional efforts to share information with Mark to help prepare him to readily join in on some of our ongoing projects.

Our arrangement with Mark will likely end up serving to fill the “post-doctorate” position that we had been looking to fill, and for which we invited several candidates to interview with us late last year. Our budget and priorities are close to being settled upon, having briefed both OP and AO senior management on our FY15 Work Plans over the past couple of weeks. Because of limited resources (contracts and salary) it seems likely that Mark’s detail assignment will consume the resources available for a temporary appointment of the kind envisioned for a new post-doctorate position. If these conditions should change, we may revisit our options and resume efforts to seek candidates. But at this time, we have no plans to continue our search, and will be notifying the other applicants we interviewed of this outcome.

2. We have received final approval to serve as a host for a short-term detail assignment for Professor Arden Rowell, University of Illinois School of Law (@ Urbana-Champaign). Her detail assignment will start next week and conclude on March 20. Arden has arranged the detail assignment with the Law School’s permission and they are fully financing her salary/benefits during her detail assignment with NCEE. Arden has pursued several topics in the field of environmental economics and law. We hope to both learn more about her own work as well as provide her with some insights into our own research and analytic efforts undertaken in support of EPA’s regulatory policies and programs. I have attached her CV and a 1-page statement of objectives which provides some further specifics on the topics of interest to her. We will arrange for Arden to give some brownbag presentations on her own work, including perhaps a preview of a presentation she is scheduled to deliver at one of the developmental workshops at this year’s Society for Benefit Cost conference in DC next month (March 19-20). We also appreciate your suggestions on which staff working in the program offices we should try to introduce her to during her brief stay in order to further enrich her experience. She will be sitting in Elizabeth’s cubicle (4316-S) and we will bring her around for introductions next week.

Thanks again, and we greatly appreciate everyone’s time and effort spent in participating in our

recruiting efforts these past couple of months.

Brett Snyder

USEPA, NCEE

202-566-2261

**To:** Newbold, Steve[newbold.steve@epa.gov]

**Bcc:** alex.marten[Ex 6 - Alex Marten]

**From:** Marten, Alex

**Sent:** Fri 2/6/2015 3:19:21 PM

**Subject:** charge - discounting question

What do you think of this?

Ex 5

Ex 5

**Ex 5**

--

Alex L. Marten

phone: (202) 566-2301

email: marten.alex@epa.gov



**To:** Shouse, Kate[Shouse.Kate@epa.gov]  
**Bcc:** alex.marten[Ex 6 - Alex Marten]  
**From:** Marten, Alex  
**Sent:** Tue 2/3/2015 6:29:03 PM  
**Subject:** RE: on a call - looking at interim, almost done (eom)

AB and I came up w/ this. What do you think?

## Ex 5

--

Alex L. Marten  
phone: (202) 566-2301  
email: marten.alex@epa.gov

**From:** Shouse, Kate  
**Sent:** Tuesday, February 03, 2015 1:28 PM  
**To:** Marten, Alex  
**Subject:** on a call - looking at interim, almost done (eom)

**From:** Marten, Alex  
**Sent:** Tuesday, February 03, 2015 1:20 PM  
**To:** Shouse, Kate; Fawcett, Allen; Barron, Alex  
**Cc:** McGartland, Al  
**Subject:** RE: 2015 02 02 SCC RTC intro draft.docx

## Ex 5

# Ex 5

--

Alex L. Marten  
phone: (202) 566-2301  
email: marten.alex@epa.gov

**From:** Shouse, Kate  
**Sent:** Tuesday, February 03, 2015 1:11 PM  
**To:** Fawcett, Allen; Barron, Alex; Marten, Alex  
**Cc:** McGartland, Al  
**Subject:** RE: 2015 02 02 SCC RTC intro draft.docx

# Ex 5

Thanks,  
Kate

**From:** Fawcett, Allen  
**Sent:** Tuesday, February 03, 2015 12:50 PM  
**To:** Barron, Alex; Marten, Alex; Shouse, Kate  
**Cc:** McGartland, Al  
**Subject:** RE: 2015 02 02 SCC RTC intro draft.docx

We're working on edits now, Kate will send shortly.

**From:** Barron, Alex  
**Sent:** Tuesday, February 03, 2015 12:47 PM  
**To:** Marten, Alex; Shouse, Kate  
**Cc:** McGartland, Al; Fawcett, Allen  
**Subject:** RE: 2015 02 02 SCC RTC intro draft.docx

Oar --

Do you have feedback?

**From:** Marten, Alex  
**Sent:** Tuesday, February 03, 2015 12:38 PM  
**To:** Barron, Alex; Shouse, Kate  
**Cc:** McGartland, Al; Fawcett, Allen  
**Subject:** RE: 2015 02 02 SCC RTC intro draft.docx

**Ex 5**

**Ex 5**

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Alex L. Marten  
phone: (202) 566-2301  
email: [marten.alex@epa.gov](mailto:marten.alex@epa.gov)

**From:** Barron, Alex

**Sent:** Tuesday, February 03, 2015 12:18 PM  
**To:** Marten, Alex; Shouse, Kate  
**Cc:** McGartland, Al; Fawcett, Allen  
**Subject:** 2015 02 02 SCC RTC intro draft.docx

## **Ex 5**

**To:** Roberts, Martha[Roberts.Martha@epa.gov]; Evans, DavidA[Evans.DavidA@epa.gov]; Elman, Barry[Elman.Barry@epa.gov]; Sheriff, Glenn[Sheriff.Glenn@epa.gov]  
**From:** Marten, Alex  
**Sent:** Tue 1/20/2015 2:11:05 AM  
**Subject:** Re: Mass design issues memo  
[2015 01 19 mass-based implementation memo.docx](#)

Thanks for starting this Martha.

Non-Responsive

**Non-Responsive**

--  
Alex Marten  
marten.alex@epa.gov

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**From:** Roberts, Martha  
**Sent:** Wednesday, January 14, 2015 7:38 PM  
**To:** Evans, DavidA; Elman, Barry; Marten, Alex; Sheriff, Glenn  
**Subject:** RE: Mass design issues memo

Hi all,

**Non-Responsive**

Non-Responsive

Thanks!

Martha

**From:** Evans, DavidA  
**Sent:** Monday, January 12, 2015 6:39 PM  
**To:** Elman, Barry; Marten, Alex; Roberts, Martha; Sheriff, Glenn  
**Subject:** RE: Mass design issues memo

Minus Alex B.

Barry raises that we haven't taken this task on yet. Of course, Joel gave us some additional context/ideas for thinking about what the memo is to accomplish. I have something I really want to get done on (b) tomorrow, but hope to turn to this. Anyone else thinking about it/planning on working on it?

Dave

**From:** Barron, Alex

**Sent:** Tuesday, December 23, 2014 6:09 PM

**To:** Evans, DavidA; Elman, Barry; Marten, Alex; Roberts, Martha; Sheriff, Glenn

**Subject:** Mass design issues memo

So, I am about to head off but I am hoping folks could take a crack at pulling together a short memo along these lines while I am away (share a draft with Joel for feedback as soon as you have one ready).

Basically, I was thinking something like this:



# Non-Responsive

# Non-Responsive

I look forward to reading it!

Alex